Thank you for purchasing our product.
Please read instructions before operation.
Change without Notice

4 ch Mobile DVR

User Manual

Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK

CAUTION :

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use,

Even if we have been advised of the possibility of such damages.

Graphic Symbol Explanation

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of insulated dangerous voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.

This exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

RoHS conform

All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.

The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

Attention: installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

FCC STATEMENT

WARNING

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received including interference that may cause undesired operation."

WARNING

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

⅄ You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

TYPE A/TYPE B/TYPE C ..... 錯誤! 尚未定義書籤。

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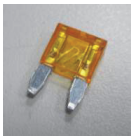
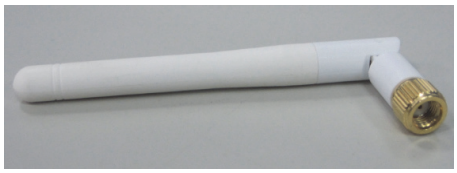
1. Package Contents

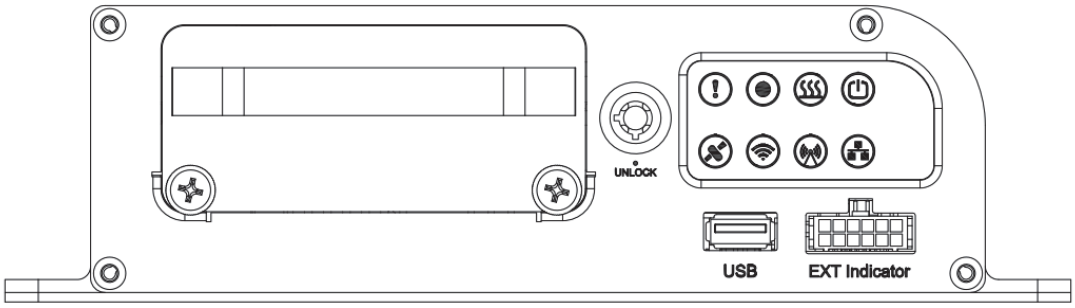
Description	Picture	Type A	TYPE B	TYPE C
Power cable (6 pin/6m) + 5A fuse X 2		V	V	V
I/O cable		V	V	-
3G antenna (Female/ 2.5 db)		V	-	-
G-Mouse (Male/5m/-159dbm)		V	V	V
Wifi antenna (Female/ 2 db)		V	-	-
Remote Controller + battery		V	V	V
Screw x 5		V	V	V
Nylon cable tie x 10		V	V	V

Hard disk rack locker key		**V**	**V**	**V**
Video cable (6 pin/mini-din type/ female-male/ 6m)		optional	optional	optional
Camera CC2 042 x 4		optional	optional	optional
USB Mouse		optional	optional	optional
External indicator + bracket + cable		optional	optional	optional

2. Product Overview

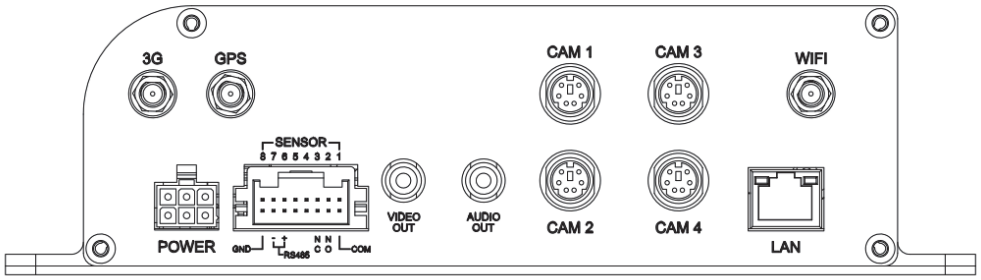
TYPE A/TYPE B/TYPE C

Front Panel



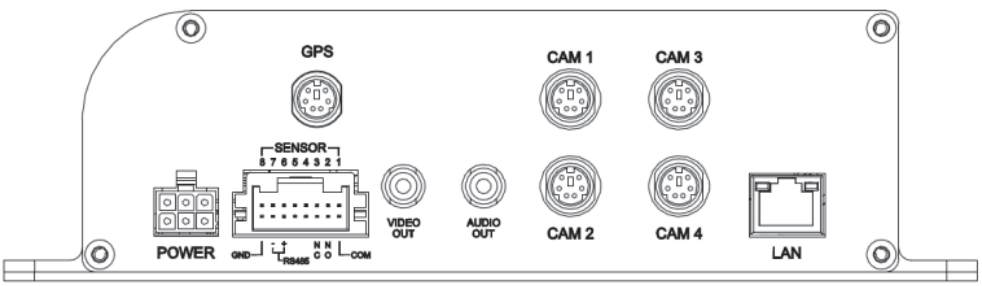
TYPE A

Back Panel



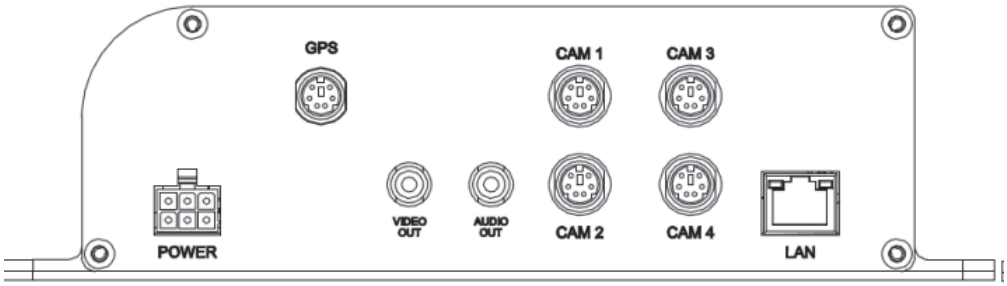
TYPE B

Back Panel



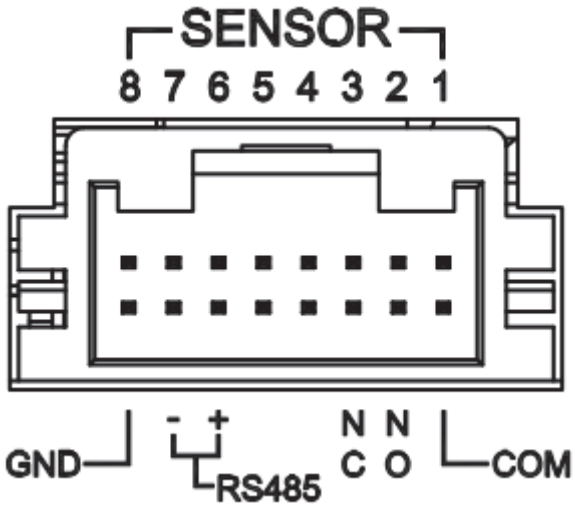
TYPE C

Back Panel

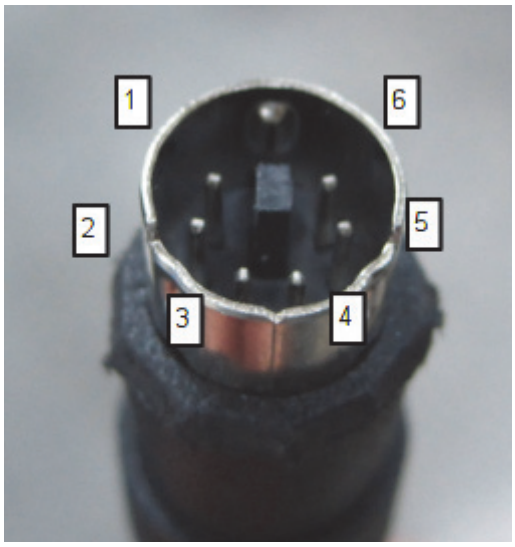


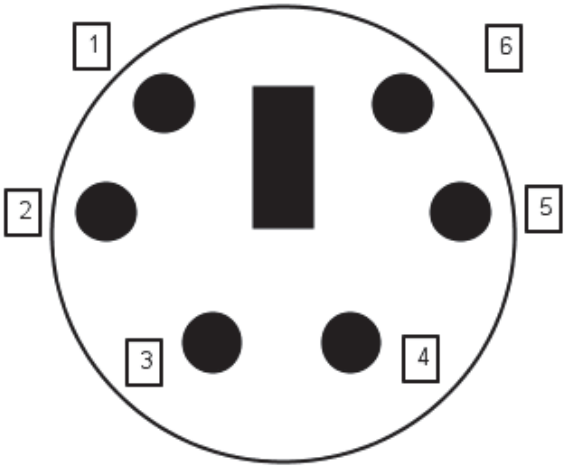
Cable pin definition

I/O cable pin definition



Video cable Mini din type





Pin number	Description
1	Power
2	Audio
3	Not used
4	Not used
5	Ground
6	Video

The function button of this IR remote controller as below

Power : Turn on/off DVR
Info : Show DVR information
Backup : Backup the recorded data to other device
REC : Panic record
Audio : Audio ON / Mute
PTZ : Control Pan/Tilt/Zoom camera.
Quad, 4CH display mode
◂I : Preview frame ||/▸ : Play or Pause during playback I▸ : Next frame ◂◂ : Fast Reverse play,2x,4x,8x speed ■ : Stop playback and go to Live mode ▸▸ : Fast Forward play,2x,4x,8x speed
Direction (▲,▼,◂,▸) Move cursor or control PTZ camera **ENTER** Select sub item in system setup mode
Lock : lock the DVR system need a password to unlock it
SEARCH :Search recorded video
MENU : Go to 'MENU' mode to setup the system
ESC : Exit the dialog window

3. Physical Connection

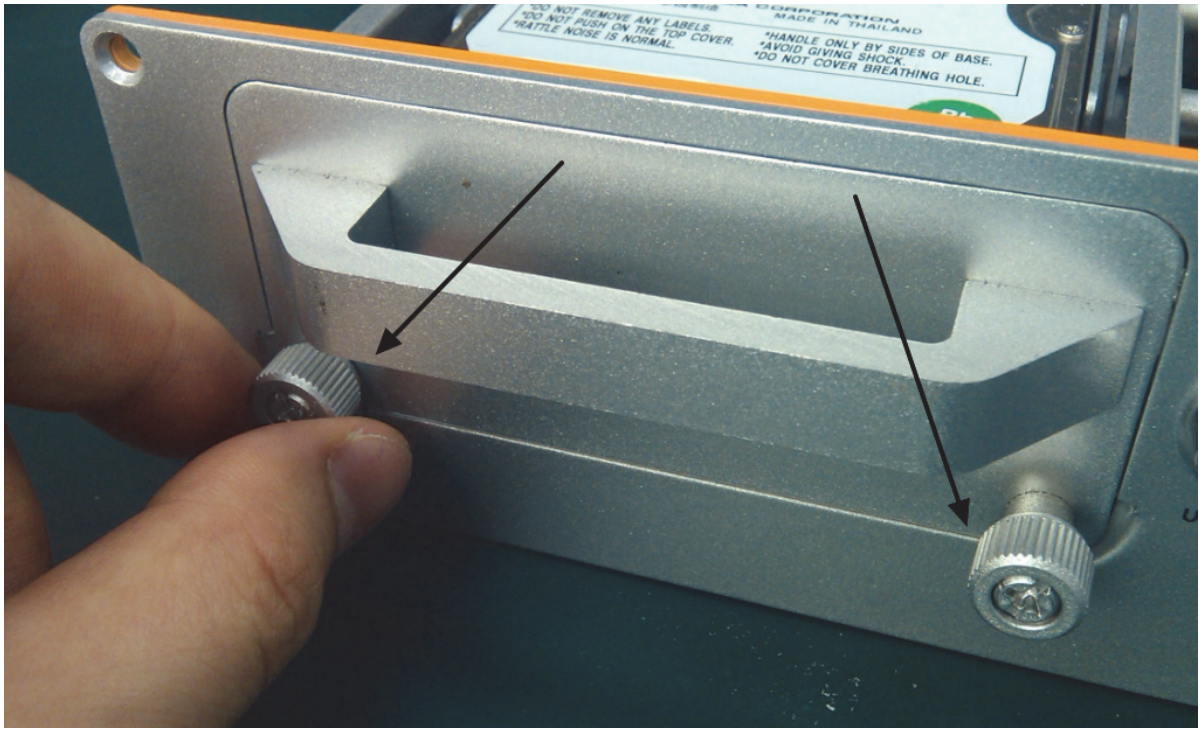
3.1. Hard disk installation

Remove the mobile DVR hard cover and insert the locker key in the front of the device,

To unlock please turn counter clock wise 90°,

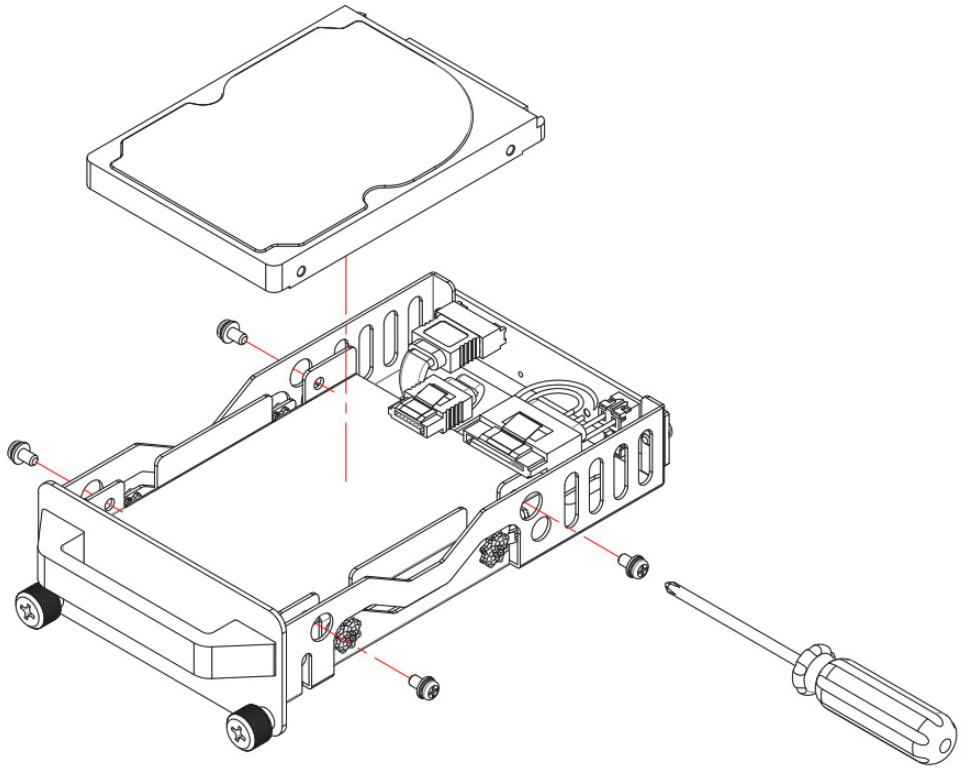
To lock it please turns clock wise 90°

Then turn counter clock wise the two screw


*DO NOT REMOVE ANY LABELS.
*DO NOT PUSH ON THE TOP COVER.
*RATTLE NOISE IS NORMAL.
*HANDLE ONLY BY SIDES OF BASE.
*AVOID GIVING SHOCK.
*DO NOT COVER BREATHING HOLE.

Pull the rack out in order to install your hard disk, note that only 2.5 inch hard disk can be installed

Screw the hard disk as shown on the below drawing



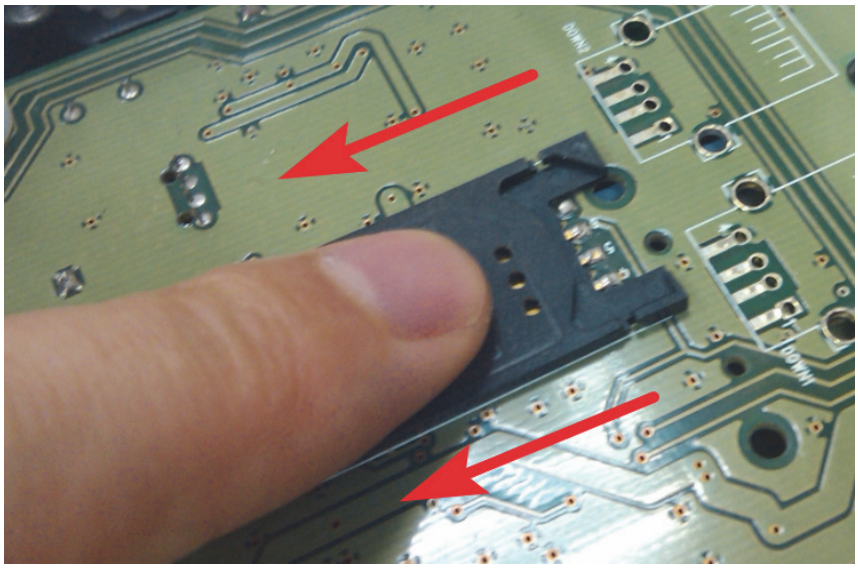
Then connect the SATA and power cable on the back of the hard disk it should look like this :

After you installed the hard disk put back the rack into the mobile DVR and tighten the two front screws and use the key to lock the rack. If the lock is not correctly done, the system won't be able to boot and the power led will flash

3.2. Sim card installation

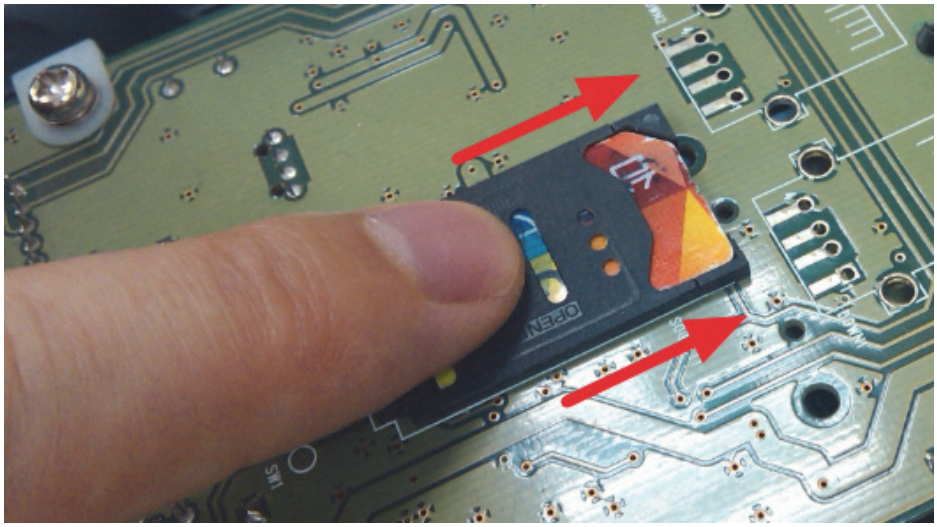
When you purchase your sim card to your telecom provider, please make sure that it meets one of the following standard in order to work :
GSM 850 900 1800 1900
WCDMA 850 1900 2100

Pull the sim card socket



Insert the sim card with its gold contact facing down and the notched corner oriented to the upper right of the slot as shown

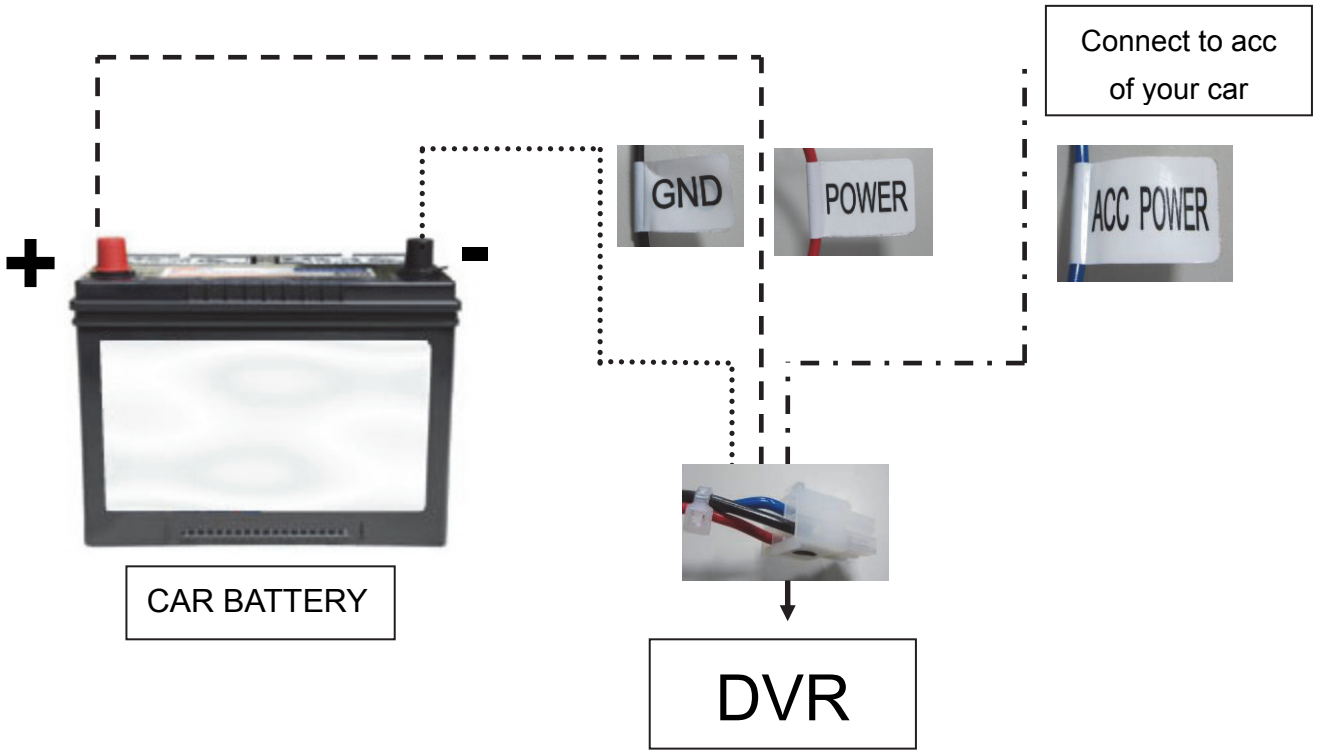
Then put back the lid to the slot and push to lock it



At final your mobile DVR should look like this

Power Setup

Cable type	Meaning
.....	Ground -
– – – – – – –	Power +
– · – · – · – · ·	ACC power



For your information ground and power + cable are protected with a 5A fuse.
Note that, do not pull the power connector when the DVR is recording to avoid the hard drive be damaged. First unplug all cameras, wait that yellow led turn off then unplug the power

Icon description table

Icon	Description	Color	Always ON	Always OFF	Flashing
	WARNING	Red	x	x	Vloss, no hdd, no recording, GPS capturefailed System boot upfailed
	RECORD	Yellow	x	No recording	Recording
	HEATER	Blue	x	x	Warming the system up to 0°C because environment temperature under 5° C
	POWER	Green	System ready	ACC turned off	ACC on system not yet ready
	GPS	Green	Localization success (more than 4 satellite s 4 included	G-mouse not connected, or signal strength too weak	Localization in process,1 to 3 satellites detected , gps data not available
	WIFI	Green	Connected to AP	Not connected	X
	WWAN	Green	Connected	Not connected	X
	NETWORK	Green	Connected	Not connected	X

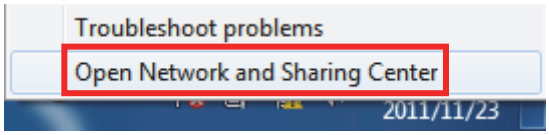
4. Setup

In order to access to the 4 channel mobile DVR with a notebook, you need to have RJ45 cross cable

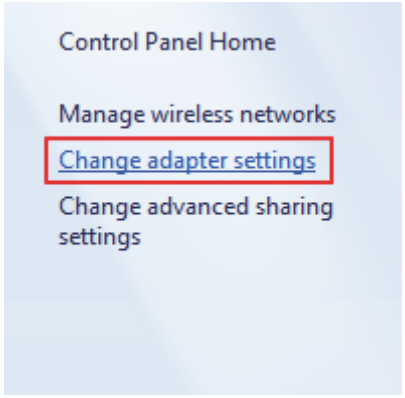
Link the notebook to the DVR with the LAN cable

Under windows 7

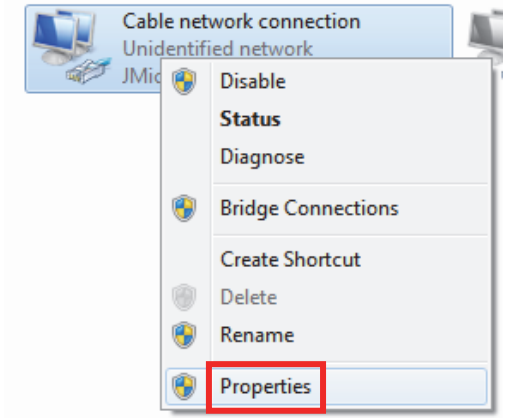
On the desktop bottom right, right click mouse on network icon then select **open network and sharing center**



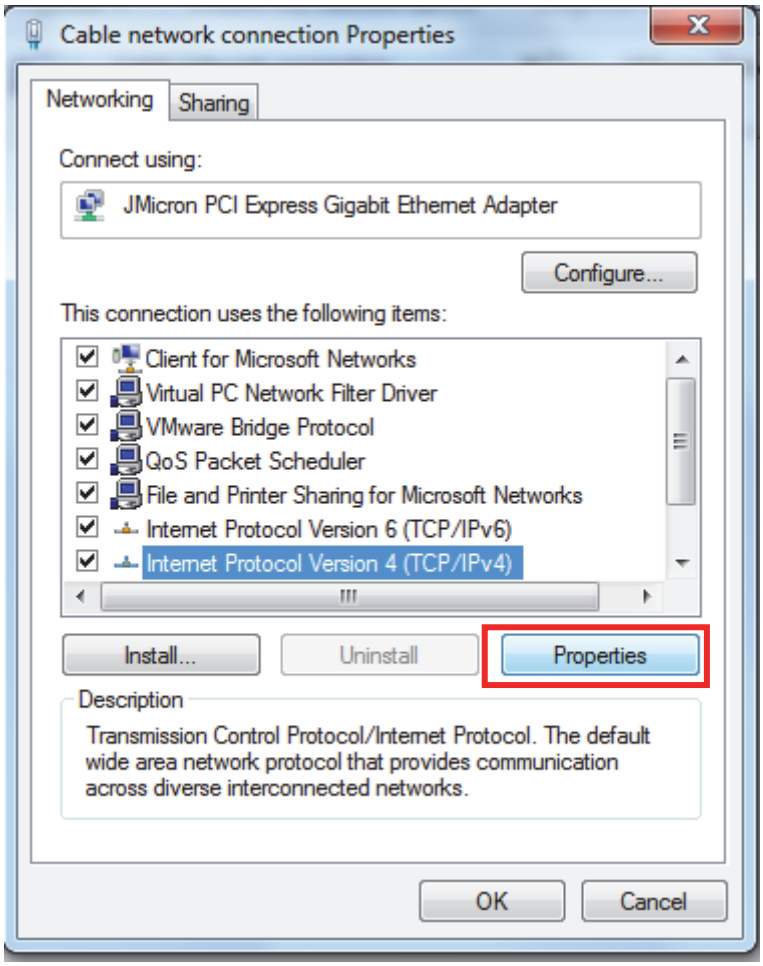
Then on the left select **Change adapter settings**



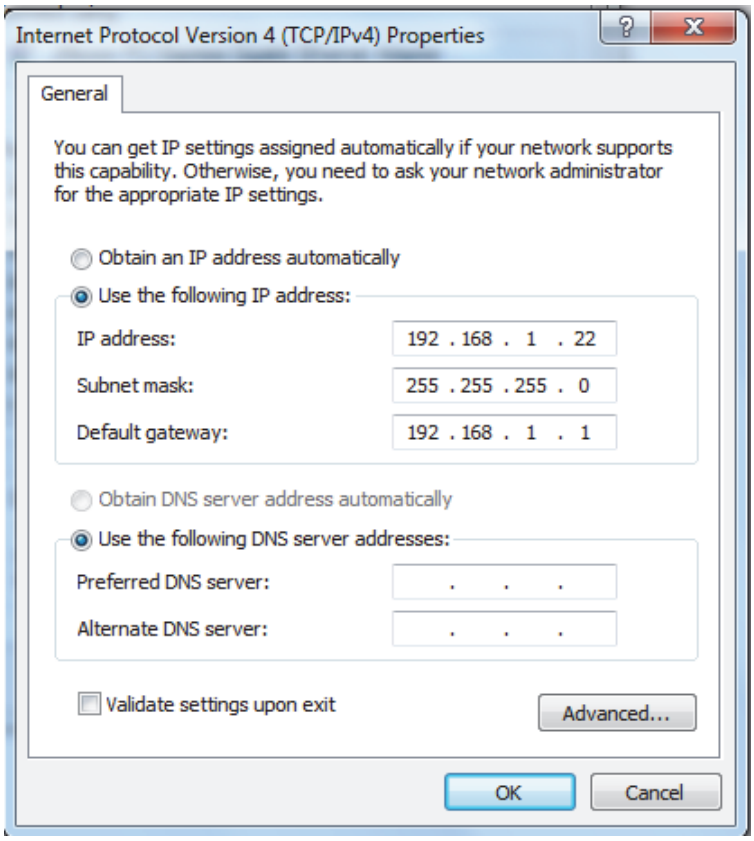
Choose your lan wired connection then mouse right click and select properties



Then click on Internet Protocol IPV4 and click properties



Assign an IP address to your notebook as the DVR default IP is **192.168.1.99**


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 22
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

Valid by pressing ok

Internet Explorer setting

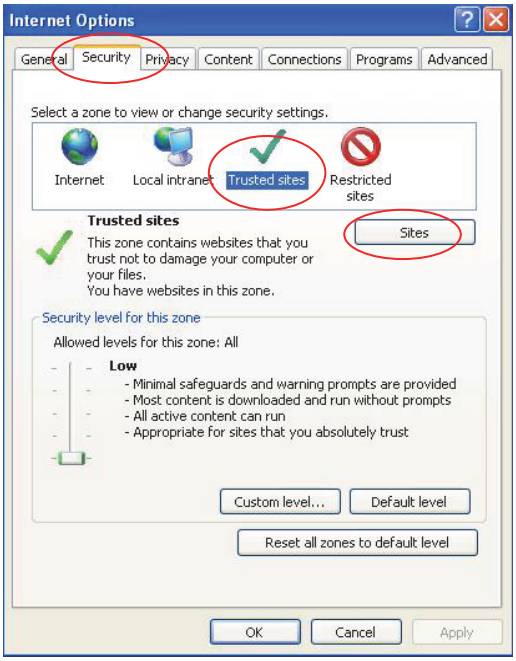
Our device supports **Internet Explorer 7, 8, 9 32 bits only**

The default IP address of the mobile DVR is **192.168.1.99**

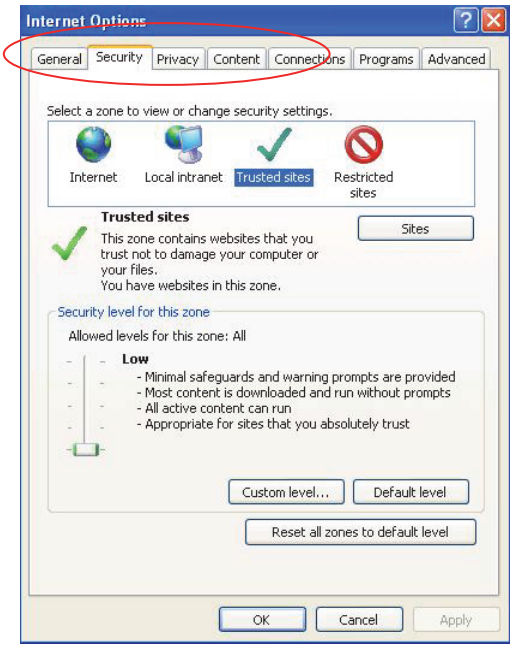
In order to install the active X you need to change your Internet Explorer settings

Open Internet Explorer, Click the Tools button, and then click Internet Options.

Click the Security tab, and then click a security zone Trusted sites. Click Sites.

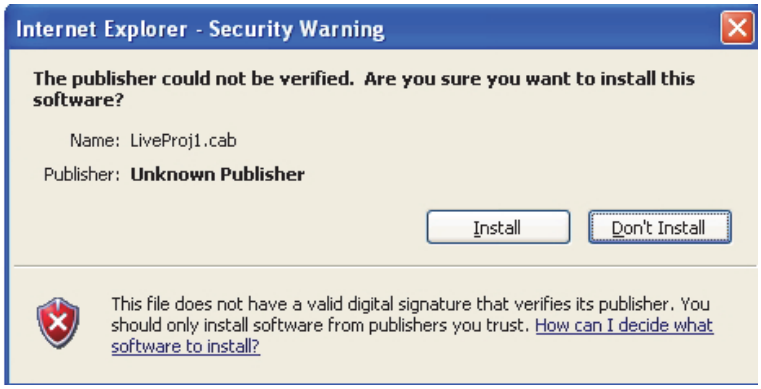


The DVR IP should be shown in the *Add this website to the zone* field. Please make sure that the below option ‘require server verification’ is disabled Click Add and close.



Then turn the Security level to Low and press apply
Return to Internet Explorer main page

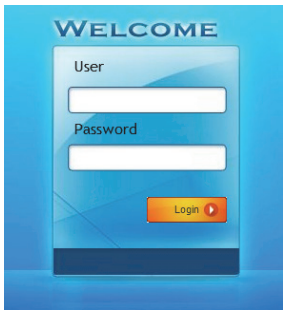
You will have a pop up message


Internet Explorer - Security Warning
The publisher could not be verified. Are you sure you want to install this software?
Name: LiveProj1.cab
Publisher: Unknown Publisher
Install
Don't Install
This file does not have a valid digital signature that verifies its publisher. You should only install software from publishers you trust. How can I decide what software to install?

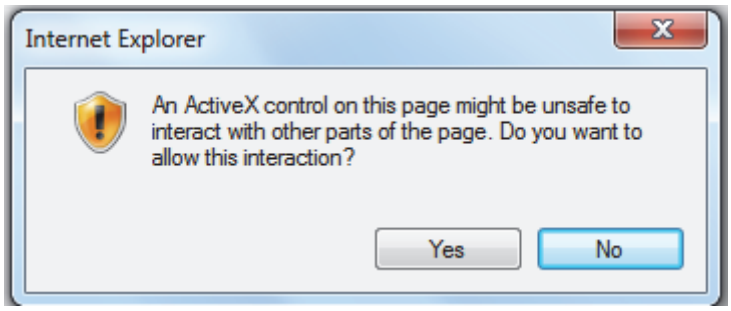
Press Install

The icon must be in blue color then please login in the DVR

Default administrator username/password is “**admin**”/ “1111”
Default guest username/password is “**guest**”/ “1111”
If you don’t operate the car dvr after a period of time (30 minutes) you will be automatically logged out, then you need to loggin again with your account and password



A pop up message will display, press Yes to continue


Internet Explorer
An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction?
Yes
No

5. DVR operation via video out

5.1. Main Interface

Mouse right click → Quick

5 predefined recording configurations for all 4 channels are available.

Longtime: For those who focus on long recording time

Real time: For those who focus on smooth video

D1: For those who want full D1 video resolution

User Define 1: you can change the setting for a profile

User Define 2:

Record info: display current record setting information

Once you select it you can validate it by press save or change the setting. (Each change will affect the total record time according to your HDD size)

Ex: Minimum record time xxxx Hour

Setting available for User Define mode:

Quality: Lowest, Low, Normal, High, Highest.

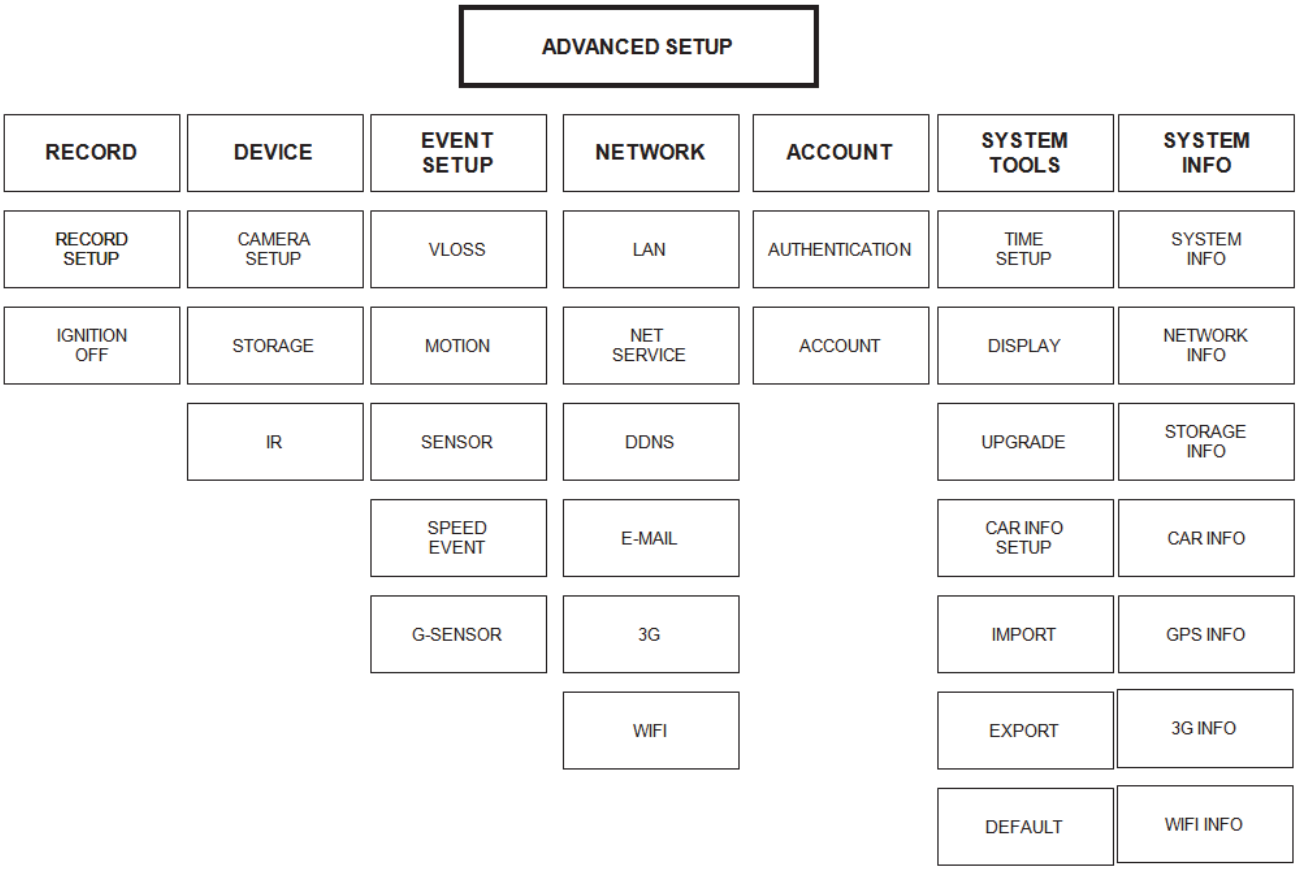
Resolution: 320x240, 720x240, 720x480 (NTSC)/ 320x288, 720x288, 720x576(PAL)

Frame Rate: 3 ~ 30 fps(NTSC)/ 3 ~ 25(PAL) fps for all channels. The sum of all channel 60 fps in D1 resolution.

Audio: Select to enable or disable audio for all channels

Overwrite: Once the hard disk is full, the DVR will clear 2GB data from the oldest for continuous recording without notice

5.2. Advanced


ADVANCED SETUP
RECORD
DEVICE
EVENT SETUP
NETWORK
ACCOUNT
SYSTEM TOOLS
SYSTEM INFO
RECORD SETUP
CAMERA SETUP
VLOSS
LAN
AUTHENTICATION
TIME SETUP
SYSTEM INFO
IGNITION OFF
STORAGE
MOTION
NET SERVICE
ACCOUNT
DISPLAY
NETWORK INFO
IR
SENSOR
DDNS
UPGRADE
STORAGE INFO
SPEED EVENT
E-MAIL
CAR INFO SETUP
CAR INFO
G-SENSOR
3G
IMPORT
GPS INFO
WIFI
EXPORT
3G INFO
DEFAULT
WIFI INFO

5.2.1. Record Setup

5.2.1.1. Record Setup

You can set up recording each channel individually

Channel: select the channel you want to set up 1 ~ 4

Start Record: enable or disable manual recording

Frame Rate: 3 ~ 30 fps

Quality: Lowest, Low, Normal, High, Highest.

Resolution: 320x240, 720x240, 720x480 or 320x288, 720x288, 720x576 for PAL system

Prerecord: select to enable or disable the pre alarm record. You can define pre alarm record time from 1 to 10 seconds

Audio: select to enable or disable audio
Post Record: select enable or disable the post alarm record, user can define post alarm record time from 1 to 30 seconds

Data Retention: define number of day of recorded data to keep in the hard disk, values vary from 0 to 30 days

Overwrite: 'On' means DVR will erase old data and record new data, 'OFF' means DVR will not overwriting the hard disk and stop recording when the disk is full

5.2.1.2. Ignition off

Postpone time: user can define after the ignition off how long it will keep recording. The values available are 30 sec, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 min

Normal, Motion, Sensor, Gsensor

5.2.2. Device

5.2.2.1. Camera Setup

5.2.2.1.1. PTZ SETUP

PTZ protocol : pelco p or pelco d

PTZ ID: 1 ~ 255

PTZ baud rate: 110, 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200

5.2.2.1.2. CAMERA SETUP

Select the camera you want to setup by clicking on the left of the camera number

Camera Title: you can rename the camera at your convenience maximum 20 characters

Color Setup

Brightness value 0 ~ 10

Contrast value 0 ~ 10

Saturation value 0 ~ 10

Hue value 0 ~ 10

Mask: You can define an area to cover in the camera for example bank atm, entrance access control keypad,

5.2.2.2. Storage

This section provides information regarding the storage device installed in your combo DVR such as brand, series number, size and enables user to format it

FORMAT PROCEDURE

Press format with the arrow

A message will display

Are you sure to format?'

Press Yes to start hard disk format once finished another message will display

Format Success!!

Press ok to return

5.2.2.3. IR setting

In order to control different DVR with one unique controller, or to avoid two DVR behave at the same time, it's necessary to setup id

IR ID values available: 1-1 → 1-16, 2-1 → 2-16, 3-1 → 3-16, 4-1 → 4-16

5.2.3. Event Setup

Mouse right click → Advanced → Event Setup

Please select the camera to setup by pressing the up or down arrow

Three events can be setup: VIDEO LOSS, MOTION and SENSOR

5.2.3.1. Video Loss

Enable: ON/OFF

Camera: select the canal to setup or all camera

Dwell time: define the length of the buzzer after each video loss 0 ~ 10 seconds

Email: can send an email to predefined address in case of the event

Alarm out: in case of video loss, DVR will send a signal via alarm out like a buzzer or flashing red light

Press save to validate your choice or to exit

5.2.3.2. Motion

Camera: select the canal to setup 1 → 4 or all camera

Enable: ON/OFF

Dwell time: define the length of the buzzer after each motion detection 0 ~ 9 seconds

Email: can send an email to predefined address in case of the event

Alarm out: in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

Event Record: ON motion record enable, OFF motion record disable

Event popup: ON/OFF

Sensitivity: 1 (lowest sensitivity) ~ 5 (highest sensitivity)

Press save to validate your choice or to exit

Area Setup

You can use the mouse to select the area, then double right click on the mouse to display the options.
SELECT ALL: all screens will be under detection

CLEAN ALL: all screen will not be under detection

SAVE: validate your selection

EXIT: to leave the area setup menu

Transparent blocks represent the area that is not being detected while the green blocks are the area under detection.

5.2.3.3. Sensor (for TYPE A and TYPE B)

Sensor: 1 to 8

Camera: select the canal to setup 1 → 4 or all camera

Enable: setup the status of the sensor OFF / NC/ NO

Dwell time: define the length of the buzzer after each sensor trigger 0 ~ 9 seconds

Alarm out: in case of sensor trigger, DVR will send a signal via alarm out like a buzzer or flashing red light

Event Record: ON sensor trigger record enabled, OFF sensor trigger record disabled

Event popup: ON/OFF

5.2.3.4. Speed Event

Enable: ON/OFF

Unit: you can choose between KM/H or MPH

Type: High speed / Low speed

Enable: ON/OFF

Threshold: 1 ~ 300

Dwell time: define the length of the buzzer after each motion detection 0 ~ 9 seconds

Email: can send an email to predefined address in case of the event

Alarm out: in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

5.2.3.5. G Sensor

Enable: ON/OFF

Threshold : OFF ~ 5g

G value Max variation : OFF ~ 5g

Dwell time: define the length of the buzzer after each motion detection 0 ~ 9 seconds

Email: can send an email to predefined address in case of the event

Alarm out: in case of motion detection, DVR will send a signal via alarm out like a buzzer or flashing red light

Event Record: choose the camera to record

5.2.4. Network Setup

5.2.4.1. Lan

3G Quality : User can define quality of video transmitted over 3G network (Lowest, Low, Normal, High, Highest.)

Host Setting: user can choose between STATIC IP, DHCP and OFF status

For static IP you need to key manually the IP, GATEWAY and NETMASK.

For DHCP, the DVR will retrieve the information from the network

5.2.4.2. Net Service

Center IP: CMS server IP address.

Center Port: default is 8787 but can be changed according to customer need

Http Port: default is 80 but can be changed according to customer need

Streaming Port: default is 554 but can be changed according to customer need

Messager Port: default is 1999 but can be changed according to customer need

DNS: if the user specifies a dns, it will help the cms to find more fastly the ip of the dvr using 3g connection

Warning: make sure that these port are open in your router if you use a lan network

5.2.4.3. DDNS

Enable DDNS: ON/OFF

Host Name: your ddns host name.

Service: now support DynDNS

Account: ddns service account.

Password: ddns service password.

5.2.4.4. E-Mail

SMTP Server: E-mail service mail server.

Port: E-mail service port.

SSL: ON/OFF

Sender: sender mail

Recipient: recipient mail

Enable SMTP Auth.(authentication**)**: some mail server need user authentication.

Account: mail service account.

Password: mail service password.

E-mail test: Due to the authorization problem, some mail server will not work properly. Please click the “E-mail test " button to test your mail server. If you don't receive the email, please contact with your MIS department or change another mail server and try again.

5.2.4.5. 3G Network (only for TYPE A)

Enable: ON/OFF

Access Point Name (APN): default is Internet.

Access Number: default is *99#

5.2.4.6. WIFI (only for TYPE A)

Enable: ON/OFF

SSID: input your WIFI AP name.

Key: input your WIFI AP connect key.

5.2.5. Account

Enable or disable user authentication when DVR boot up

User can modify password and add information such as Mobile phone or Email

User can setup administrator and guest password

5.2.6. System tools

5.2.6.1. Time Setup

Date: Year- Month-Day

Time: Hour-Minute-Second

Display format available: Month/Day/Year, Day/Month/Year, Year/Month/Day

Time format: 12 hour or 24 hour

Daylight Saving: enable or disable, after user selects the time zone, if daylight saving is enable, the DVR will automatically adjust the time

5.2.6.2. Display

Select language

CVBS Height adjustment: 1 ~ 9

CVBS Width adjustment: 1 ~ 9

You can enable or disable the following function by click or unclick them

- System time
- Channel title
- Recording
- Motion
- Alarm
- Network

5.2.6.3. Upgrade

After you received the new firmware which name is ***image.bin***, just copy it to a usb solid disk formatted in FAT32, insert in the usb port and click upgrade you will this following message

Message	**Description**
waiting	Starts the upgrade process
Are you sure to upgrade ?	The usb key is being initialized, the yes/no will appear after few second
search file	If press yes it will look for the file in the usb key
upgrade system please wait	
1/4 (3/3)	
Upgrade complete. the system will reboot	Press ok to reboot the device

5.2.6.4. Car Info Setup

User can add car info such as: device number, company name, driver name, car number

5.2.6.5. Import setting

User can import or restore setting

Message	**Description**
waiting	Starts the process
Are you sure to import config	The usb key is being initialized, the yes/no will appear after few second
Import complete! The system will reboot!	Press ok to reboot the device

5.2.6.6. Export Setting

User can export or backup setting

Message	Description
waiting	Starts the process
Are you sure to export config ?	The usb key is being initialized, the yes/no will appear after few second
Export finish !	Press ok to leave the export mode

Notice: The export file name is *Config*, you can rename it for archive purpose but you must rename it as *Config* if you want to use it to restore setting in your combo DVR

5.2.6.7. Default

This enables user to reset setting to default.

Message	Description
waiting	Starts the process
Are you sure to reset default?	Yes to validate, No to cancel
Reset Default Finish!	Press ok to reboot the system

5.2.7. System Info

5.2.7.1. System info :

Version of the firmware, Mcu version, sensor status

5.2.7.2. Network Info:

DVR's IP address, Mac address, netmask, gateway

5.2.7.3. Storage info:

status mention if the hard disk is correctly working, its model name and storage utilization

5.2.7.4. Car info:

Device number, Company name, Driver name, Car Number

5.2.7.5. GPS info:

Time, Longitude, Latitude, Speed, Height, Direction

5.2.7.6. 3G info:

Enable, signal, IP address, Net mask, Gateway

5.2.7.7. Wifi info:

Enable, ssid, IP address, Net mask, Mac address, Gateway

5.3. Search

Mouse right click → Search

Backup

User can make a backup of specific period on any usb device such usb key, external usb hdd

Time Search

Key in specific time to playback the data, select the camera and click ***go search***

Log List

Select the channel
Define start and end time.
Type available: system, motion, sensor, video loss, network remote access
And click on Search it will display the results, and then select the event to play it back

Net Service

User can search received message from the central by date

5.4. Backup

Mouse right click → Backup

Insert your usb solid disk and
Select the channel you want to backup, define the time period and after the osd display your usb key free space memory, press ***GO BACKUP !***

5.5. Sound

You can adjust the sound volume with or from 1 to 15

Select the channel you want to listen by selecting the channel or press mute to disable sound

5.6. Display

User can choose between quad display or car display

5.7. PTZ

User can control the ptz during live display

5.8. Playback

Mouse right click → Playback

User can playback last recorded file

Fast Rewind

Pause

Play

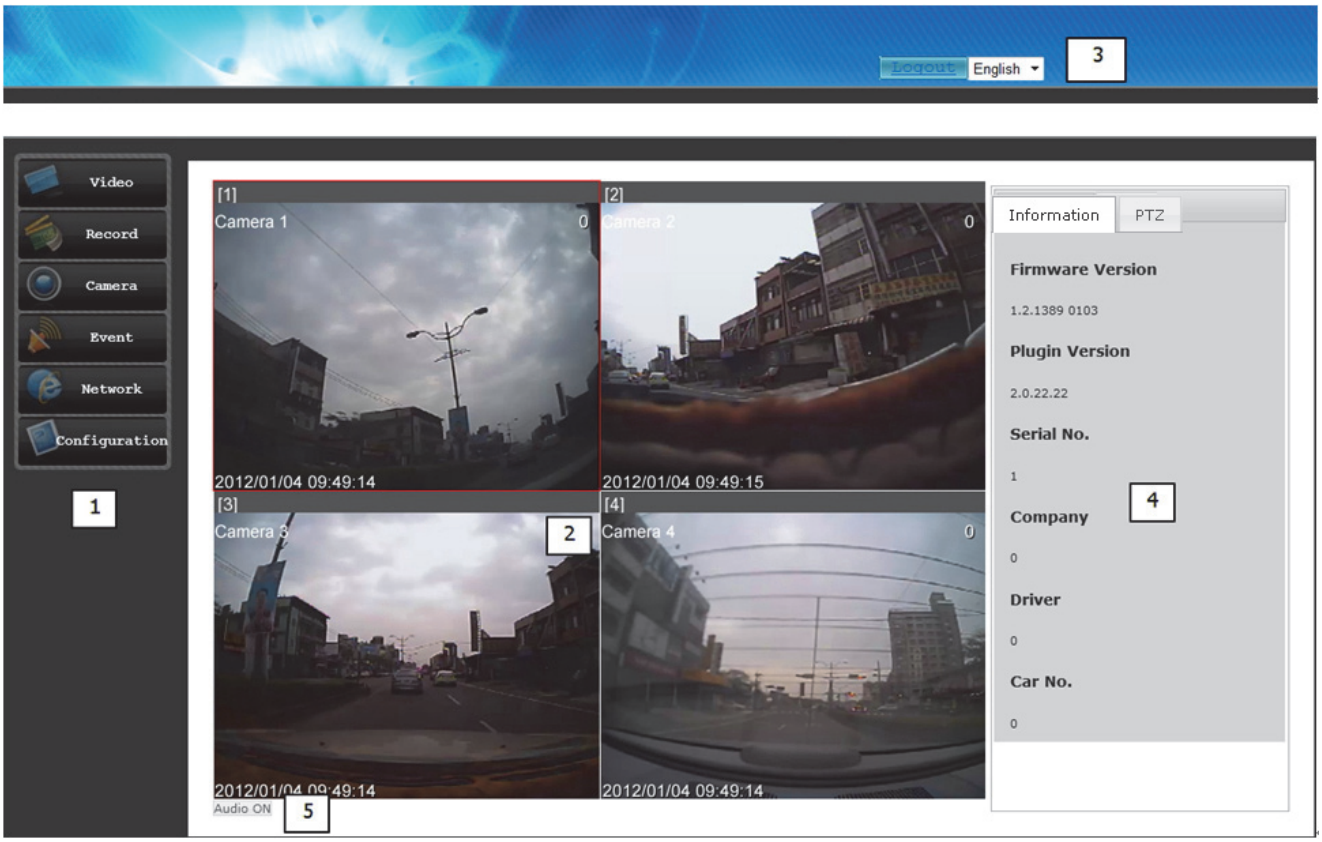
Fast Forward

Slow forward: it will forward frame by frame

Stop and return to main display

6. DVR operation via browser

Live preview



After you log in, you will access to live picture , there are 5 areas:

1 is all the function of the DVR which will be explain later in this guide
2 is the main display of the camera, to see a camera in full screen, just double click on it. To return to quad mode, please go to VIDEO/LIVE
3 is the log out function and language setting, you can switch between English and Chinese
4 is the information regarding the system (firmware, plugin) and regarding the car (serial number, company, driver name, licence plate number), and also control PTZ
5 is audio on/off

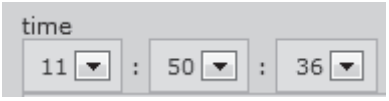
6.1. Video

Live *please check page 11 for more information*

Playback

After you make sure that you have enabled video recording, you can playback a video.
Select the date on the calendar

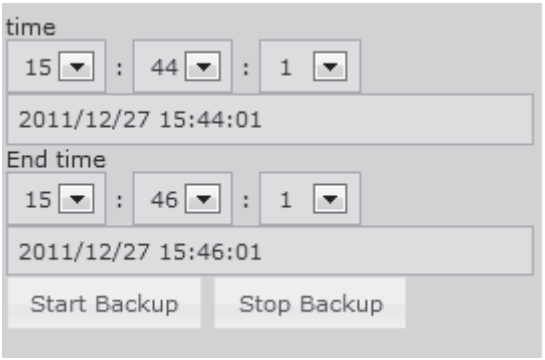
Then select the time you want to watch



Check on below line if it is the period you need

If data are available a

will appear, then press PLAYBACK,



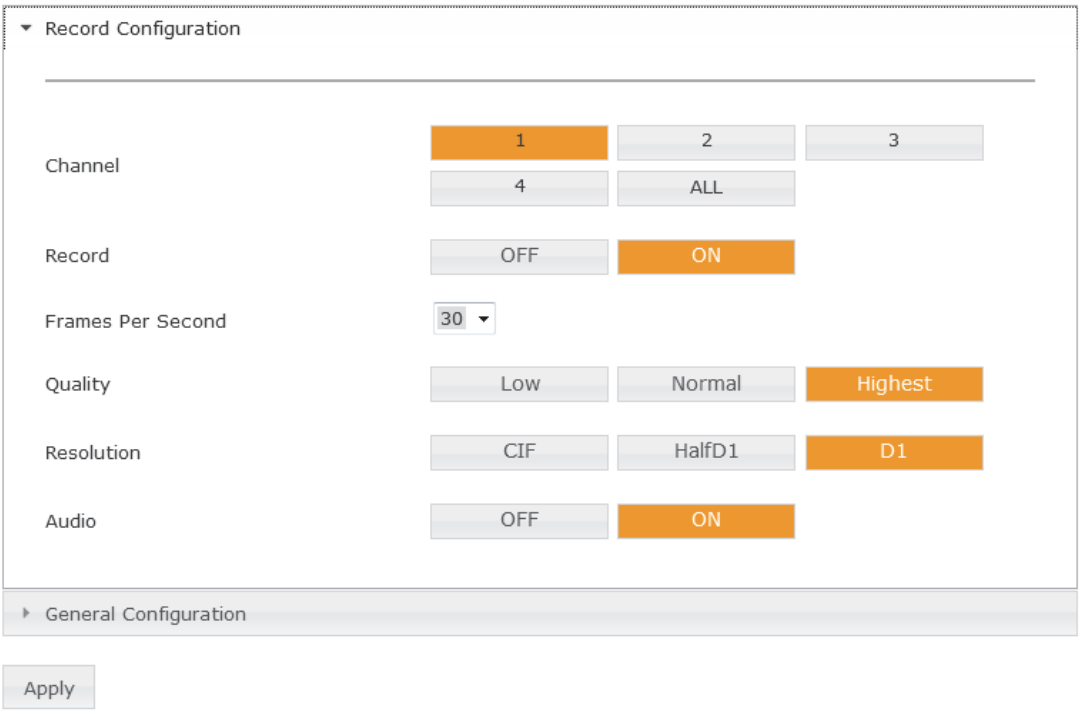
if you press BACKUP then you have the specify the period then press START BACKUP you will have to specify the folder destination

The backup process in % will appear in each channel

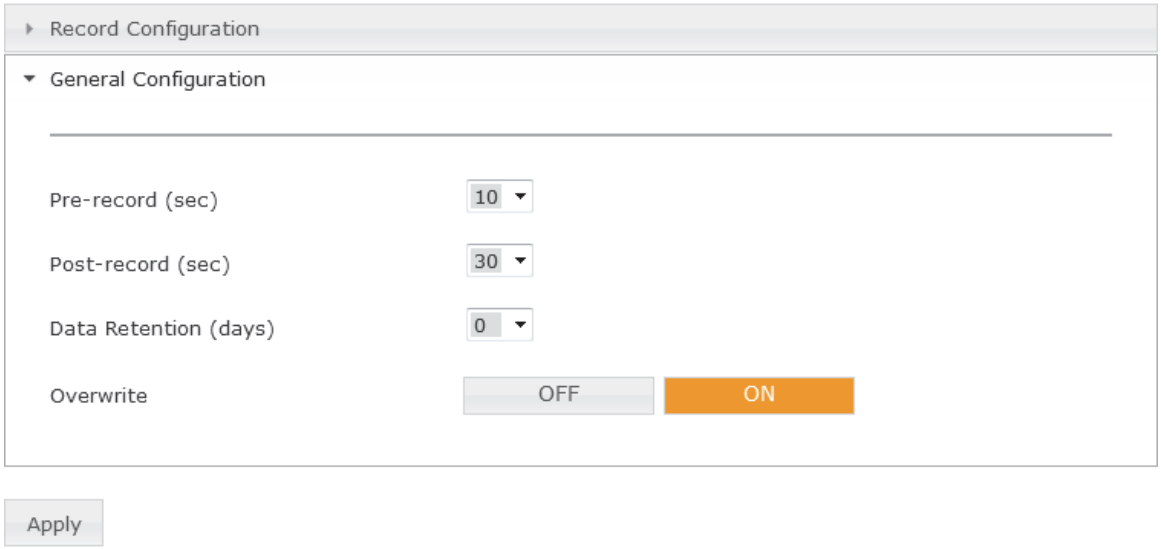
When backup is finished, a confirmation message will display.

Then press Live display to return to normal operation

6.2. Record

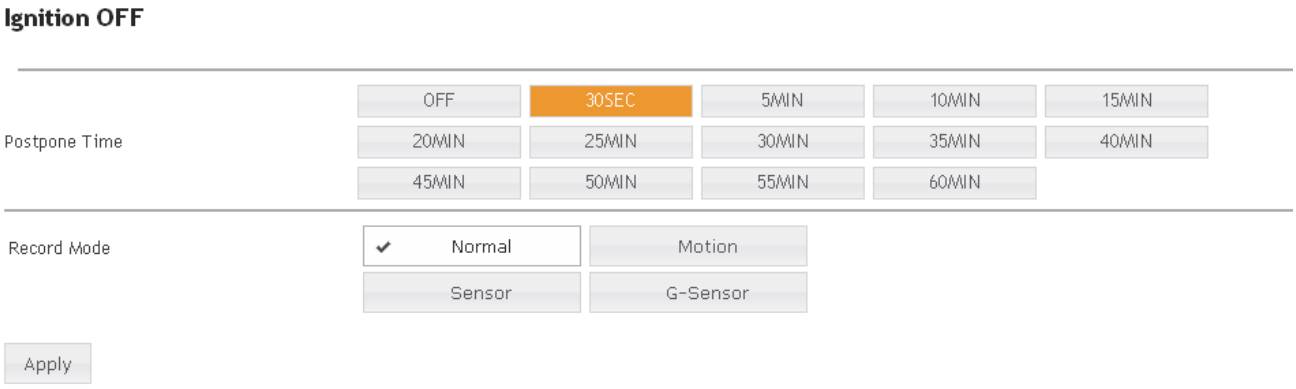


User can choose to record one specific channel or all channel.
User can enable or disable record.
Total framerate available for CIF and half D1 is 120fps and for D1 60FPS
If you have 4 cameras connected you can record at D1 resolution with 15 FPS per channel
If you have 2 cameras connected you can record at D1 resolution real time 30 FPS per channel
Quality level: you can select between low, normal and highest quality
Enable or disable audio recording on all channel



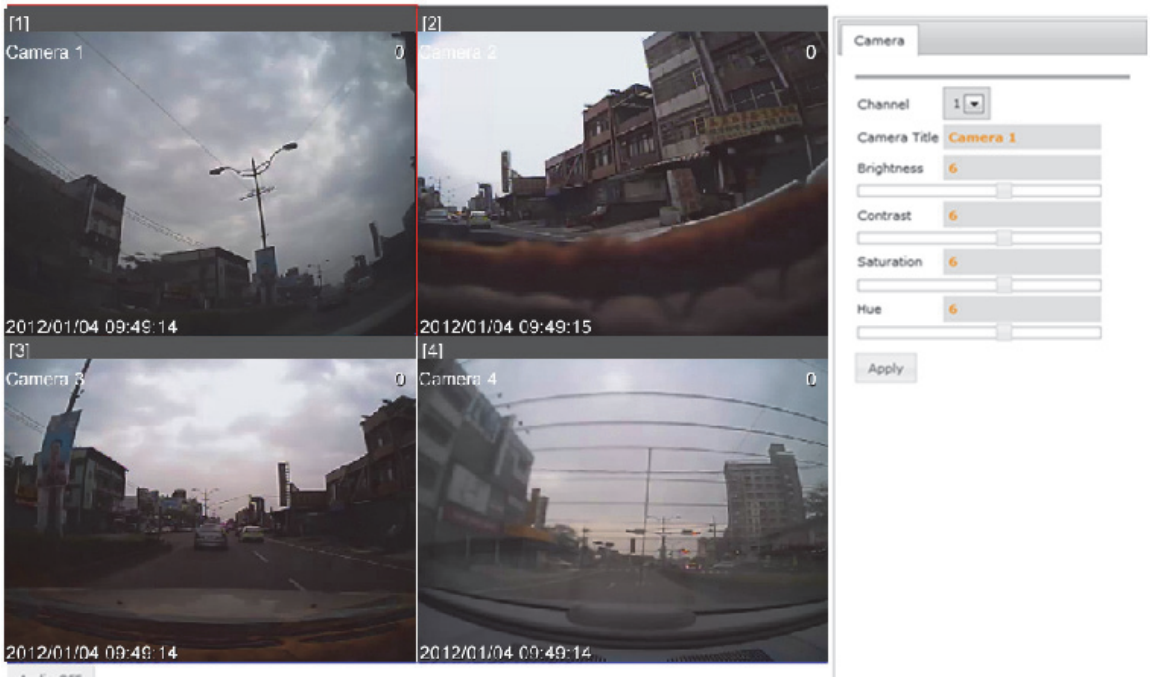
General configuration

Prerecord 0~10 sec
Post record 0~30 sec
Data Retention days 0~30 days
Enable or disable overwriting on hard disk



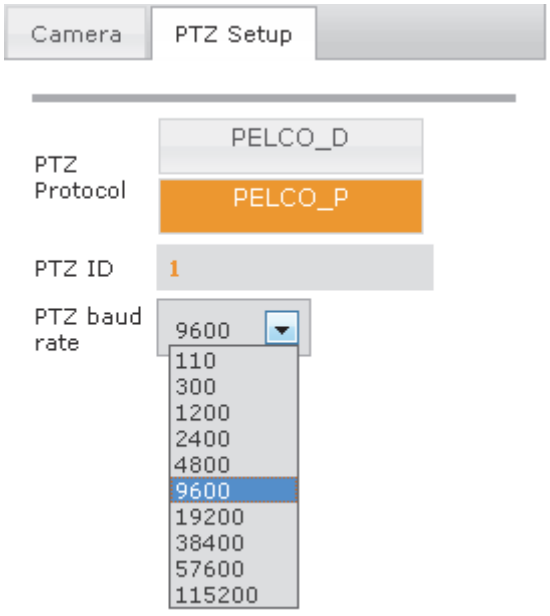
Ignition off: After you switch off the power, the user can setup ignition off time
Record mode: you can select normal, motion, sensor and/or G-sensor record mode during after ignition off period. If the ignition off period is ended and that suddenly the car is subject to a move, the G sensor will be trigger and will activate the record.

6.3. Camera setting



User can change camera title

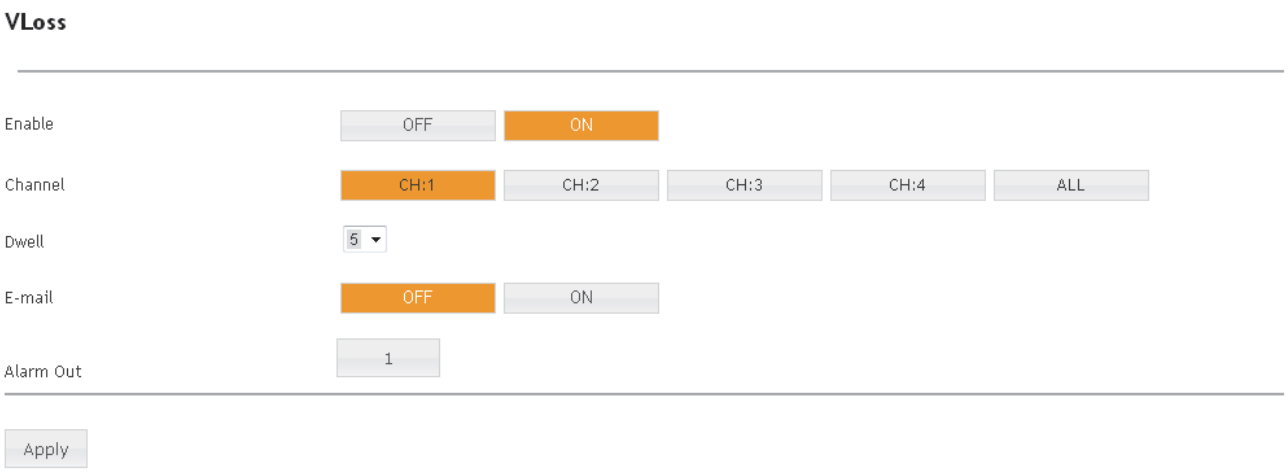
User can adjust camera brightness, contrast, saturation and Hue. Press apply to validate your choice



PTZ setup: in order to control the PTZ, user has to setup correct protocol, ID and baud rate

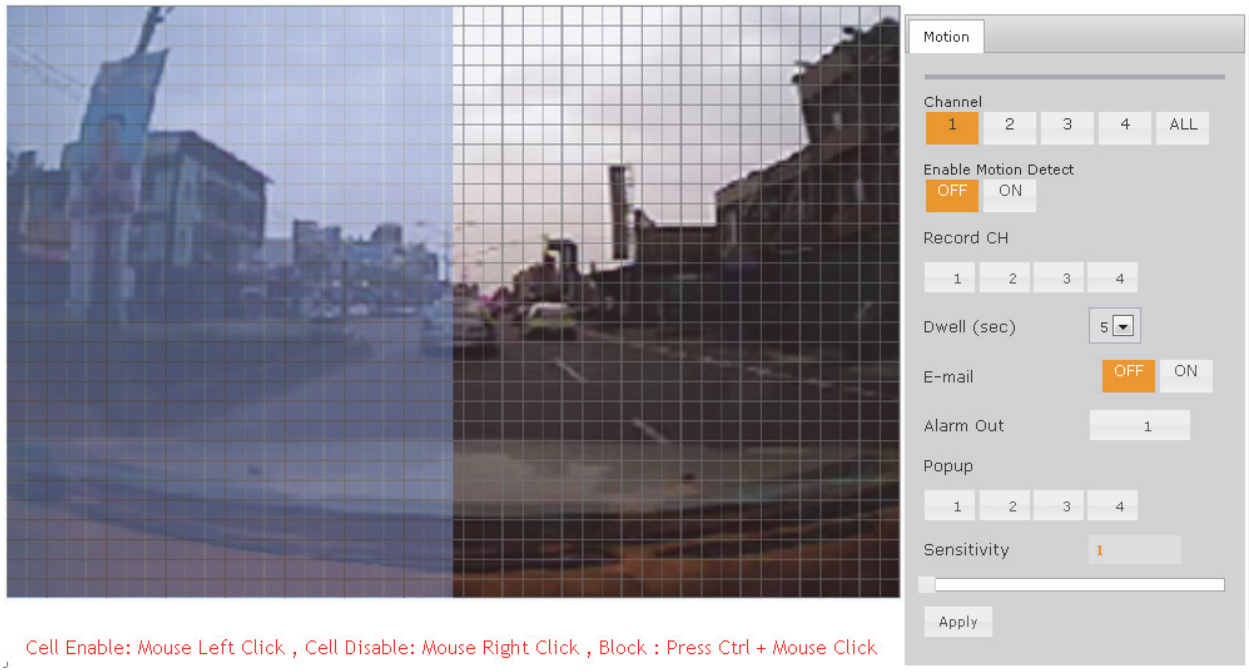
6.4. Event

6.4.1. VLOSS



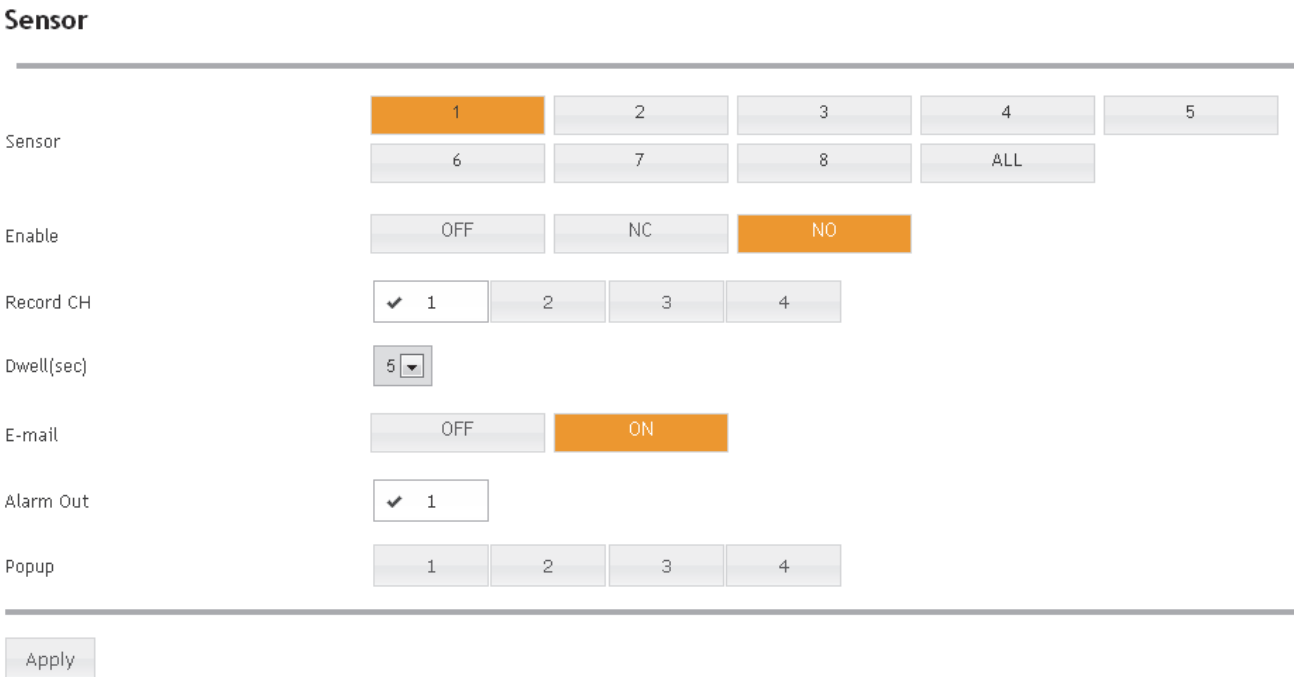
Select the channel you want to display video loss message.
Dwell time: 0 to 9 seconds
Email: disable or enable
Alarm out: if user wants send alarm out when video loss, click on the 1 so it has a click

6.4.2. Motion detection



User can setup motion detection one by one or all at the same time
To select a cell: Mouse Left Click, / To deselect a cell: Mouse Right Click,
To select or deselect a block: Press Ctrl + Mouse Click
Blue area means selected /No color area means not selected
User can setup which camera to record in case of motion detection
Dwell time: 0 to 9 seconds
Email: disable or enable
Alarm out: if user wants send alarm out when motion detection, click on the 1 so it has a click
Popup: displays a selected camera when motion detection occurs
Sensitivity: 1 to 5
Press apply to validate your choice

6.4.3. Sensor (only for TYPE A and TYPE B)



Sensor: 1 to 8

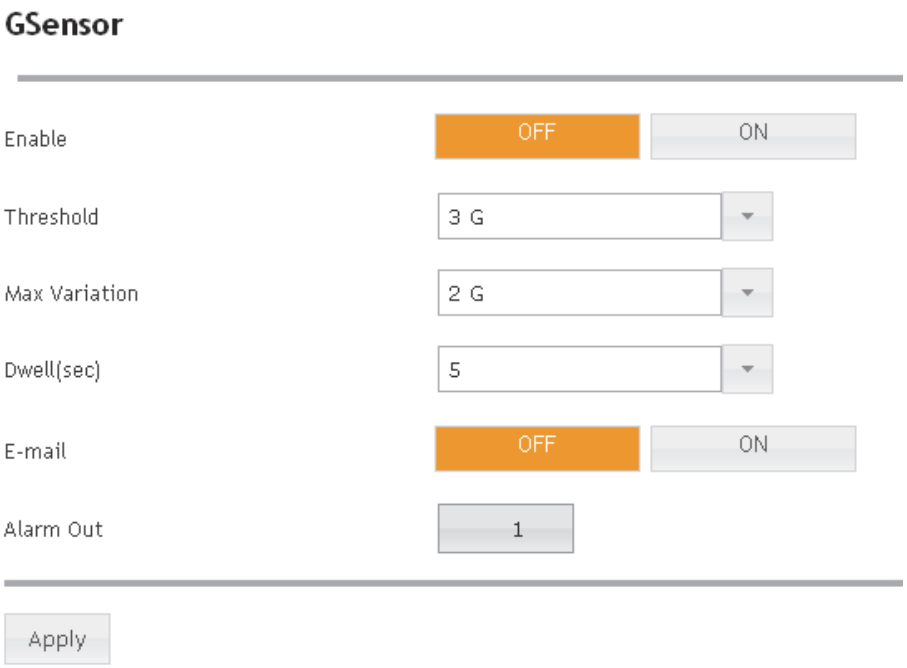
Enable: setup the status of the sensor OFF / NC/ NO

Record CH: select which camera to record in case of sensor trigger

Dwell time: define the length of the buzzer after each sensor trigger 0 ~ 9 seconds

Alarm out: in case of sensor trigger, DVR will send a signal via alarm out like a buzzer or flashing red light
Event popup: ON/OFF

6.4.4. G sensor



Enable: ON/OFF

Threshold: OFF ~ 5g

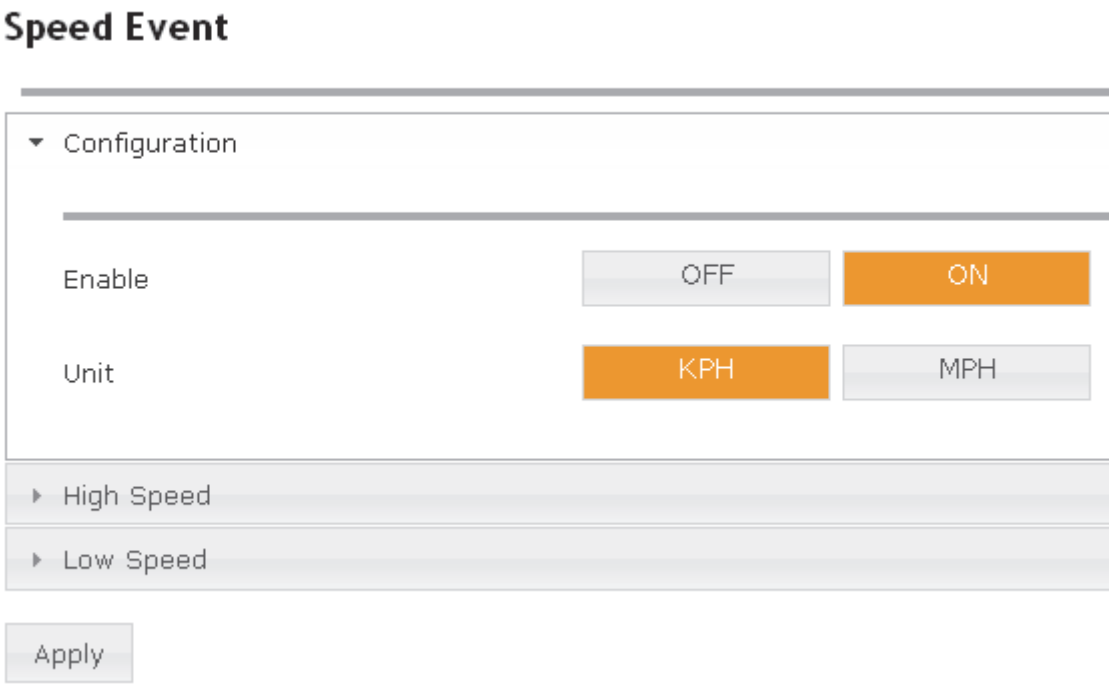
G value Max variation: OFF ~ 5g

Dwell time: define the length of the buzzer after each motion detection 0 ~ 9 seconds

Email: can send an email to predefined address in case of the event

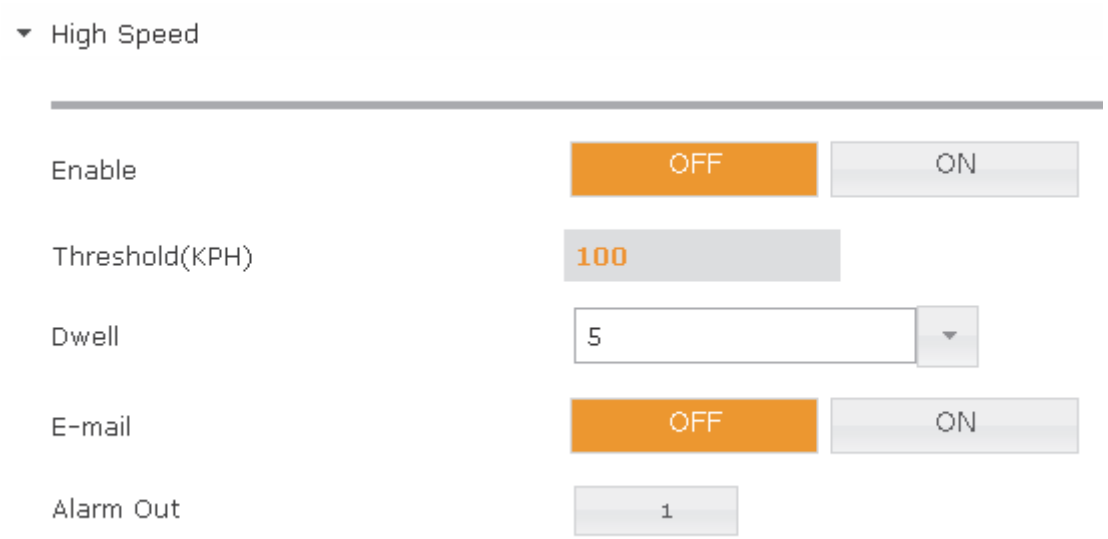
Alarm out: in case of Gsensor detects a variation, DVR will send a signal via alarm out like a buzzer or flashing red light

6.4.5. Speed event



This page let user to enable or disable the speed event detection
Unit can be kilometer per hour kph or mile per hour mph

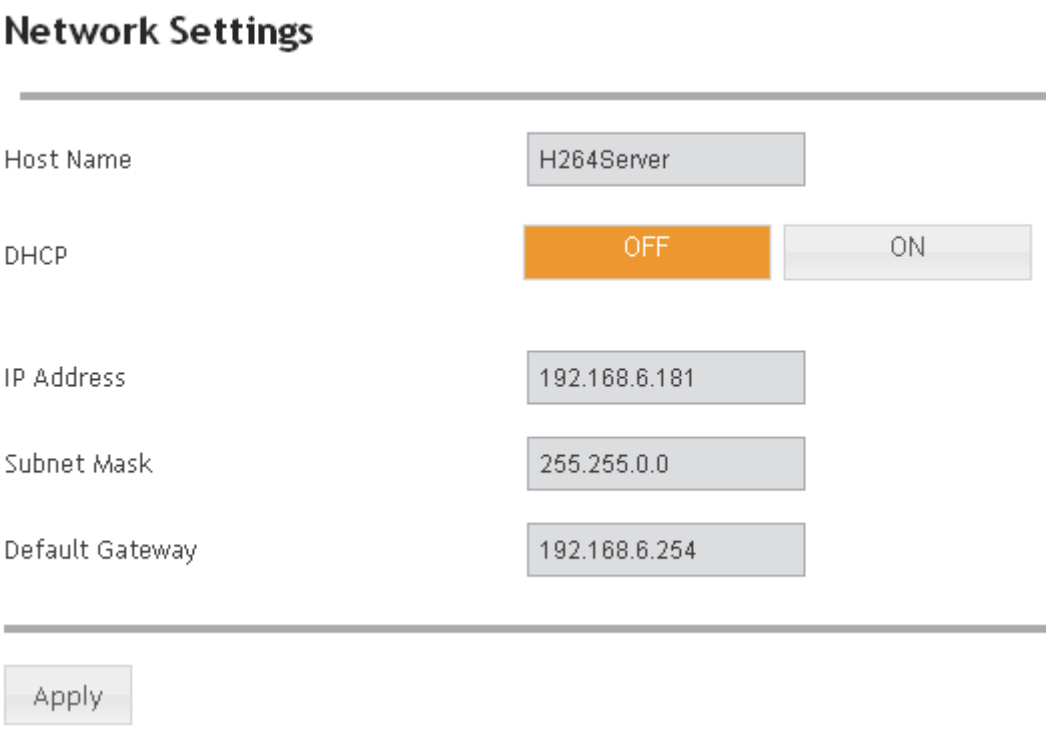
User can enable or disable high speed detection, specify the highest speed threshold, its dwell time from 0 to 9 seconds, if send email or not and if enable the alarm out or not



Same setting applies for low speed detection

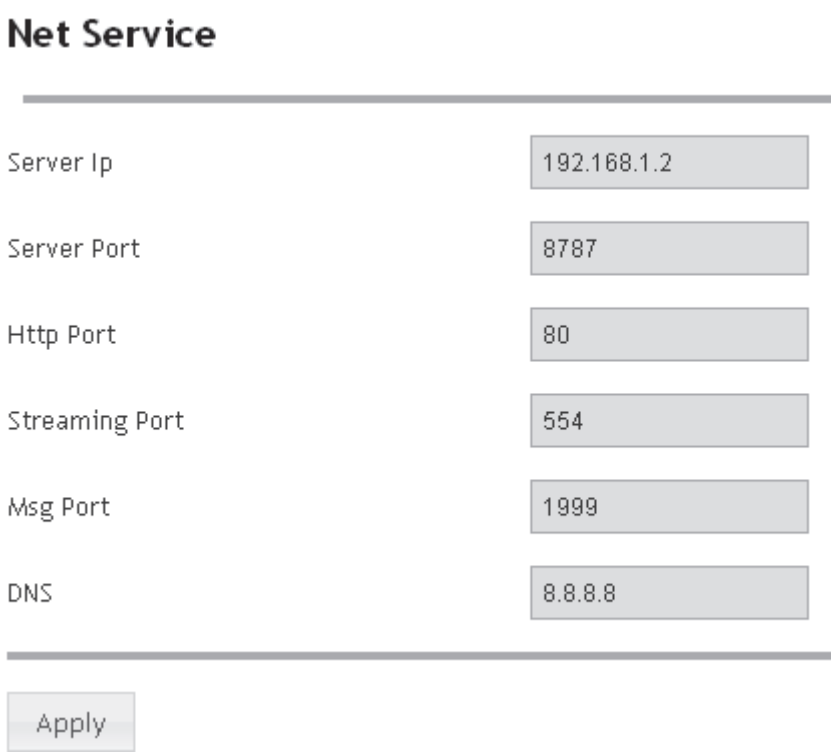
6.5. Network

6.5.1. Network Settings



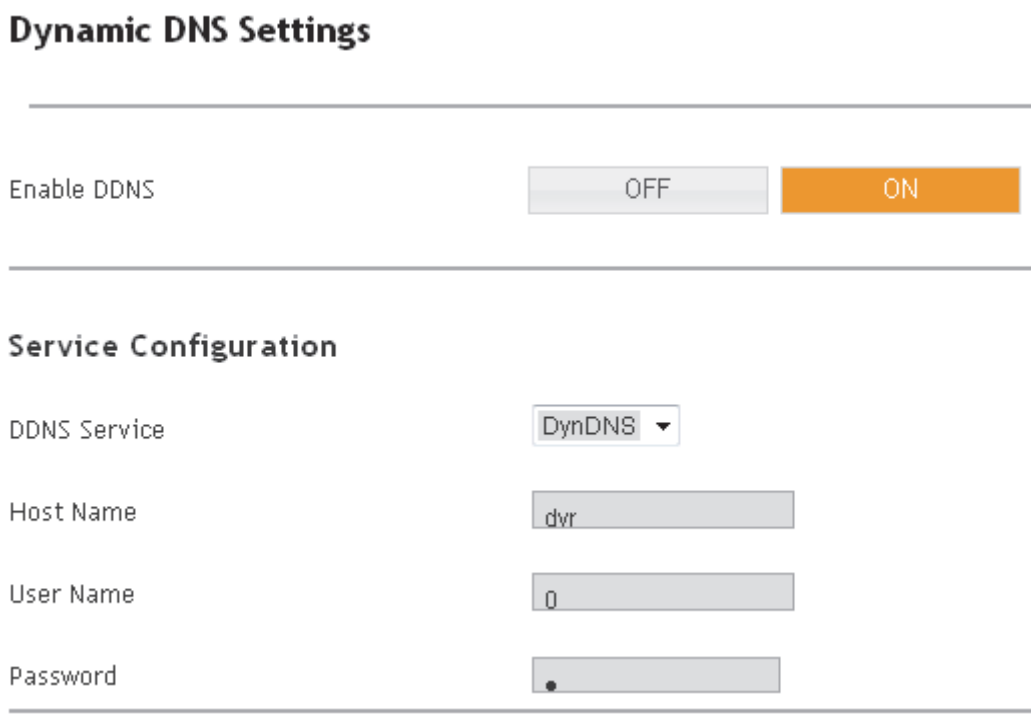
This side enables user to setup network in order to remotely connect to it for example with a notebook for maintenance.
If the network has a DHCP server, you can enable this function.
Please make sure that gateway and subnet mask are the same on both side.

6.5.2. Net Service



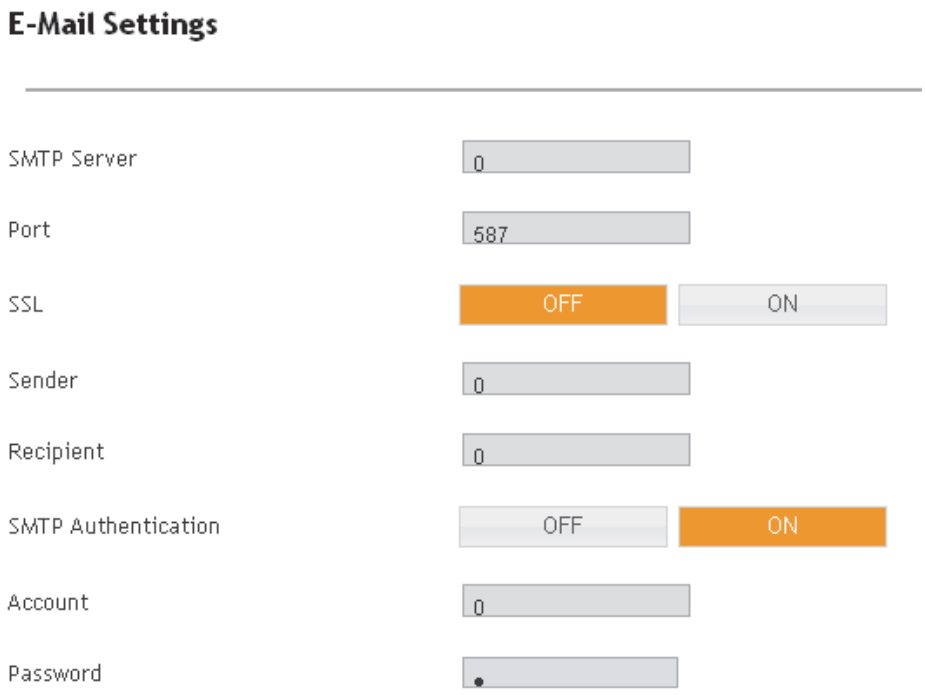
If your network has a router, please make sure to open these ports in order to enable smooth access to the dvr via browser or cms software.
All these port can be customized according to your needs

6.5.3. DDNS service



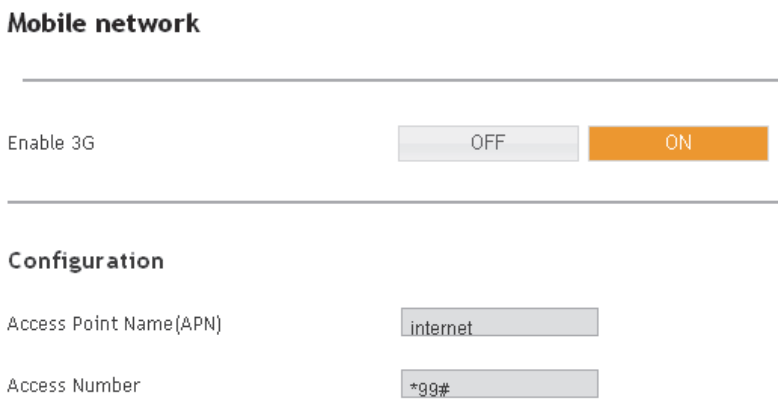
Our mobile dvr supports DYNDNS service, user needs to apply for a hostname and have its own username and password registered at DYNDNS website

6.5.4. Email



Smtp server: we recommend to use gmail
Port: check with port your smtp server is using
SSL: enable or disable according to your smtp server
Sender: key in the email of the sender
Recipient: key in the email of the person who will receive notification in case of event.
SMTP authentication: enable or disable according to your smtp server if it's enable user need to provide the mail account and password

6.5.5. Mobile network setting



Here you can enable or disable 3G.
Provide information of how to connect to the 3G network (please check your operator for dial up procedure)

6.5.6. WIFI setting

Here you can enable or disable the wifi

7. Configuration

7.1. Information

This section shows three type of information:

- Network such IP, http port, streaming port, MAC adress and gateway
- Wireless network such as connection type, IP and gateway
- Hard disk such brand size and occupation ration

7.1.1. System

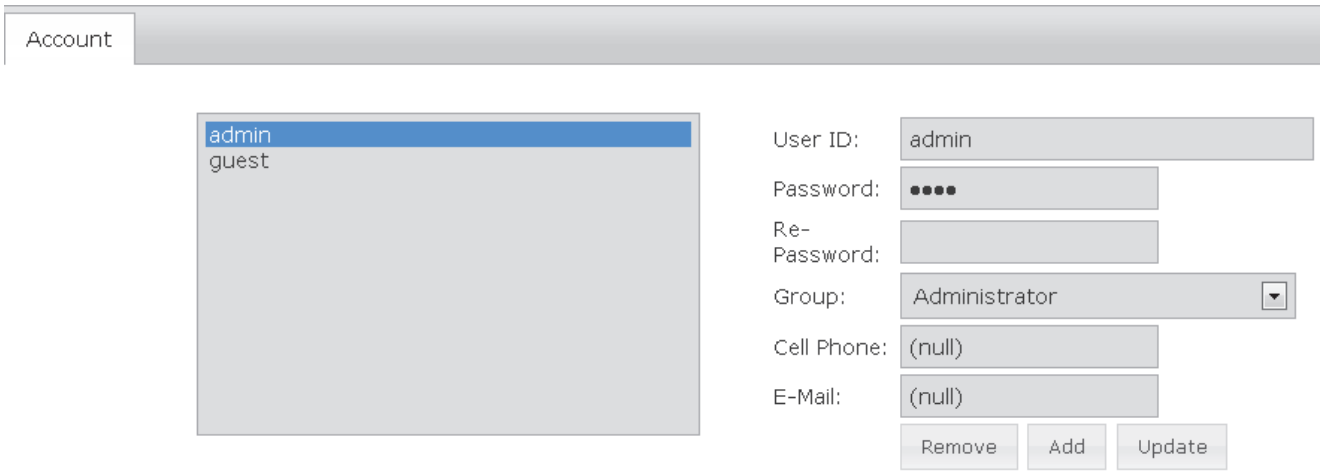
Network: displays current network setting and Mac address
HDD: displays hard disk brand, model number, size and occupation percentage

7.1.2. Display

User can choose between English and Traditionnal chinese

User can select which items to display

7.2. Account



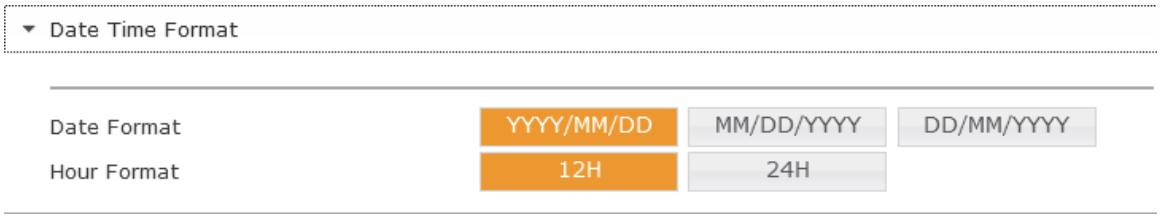
Two level of user can be define and unlimited account can be created

Guest can only see live picture

Administrator as full authority on the device

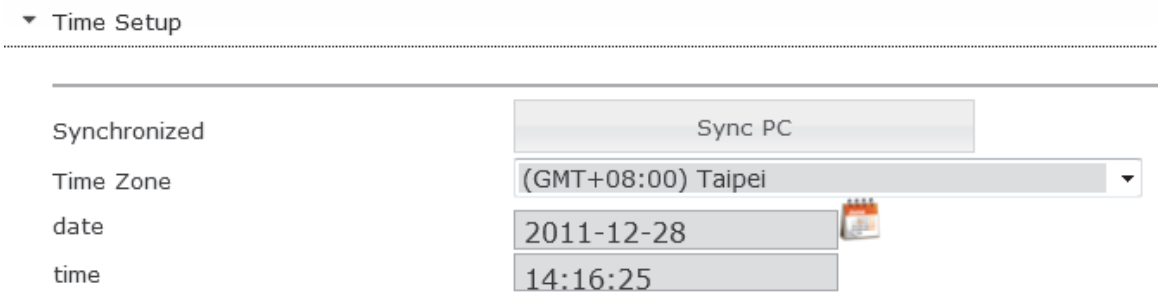
Cellphone and Email are just for reference and optional

7.2.1. Date and time



Select your prefered date format and hour format here

Enable or disable daylight saving, according to the time zone, it will automatically turns it on and off at the right time

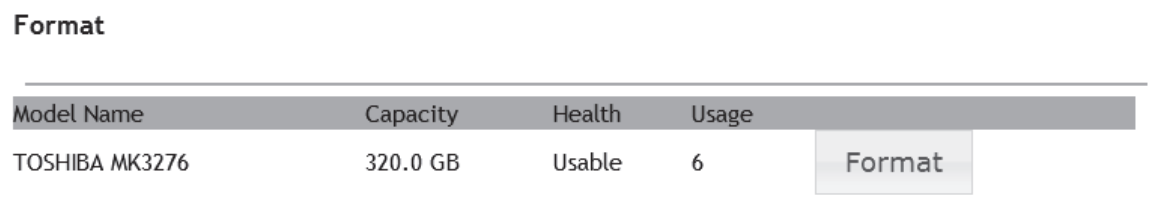


Here you can manually setup your device time or synchronize with your computer time

7.2.2. Car information

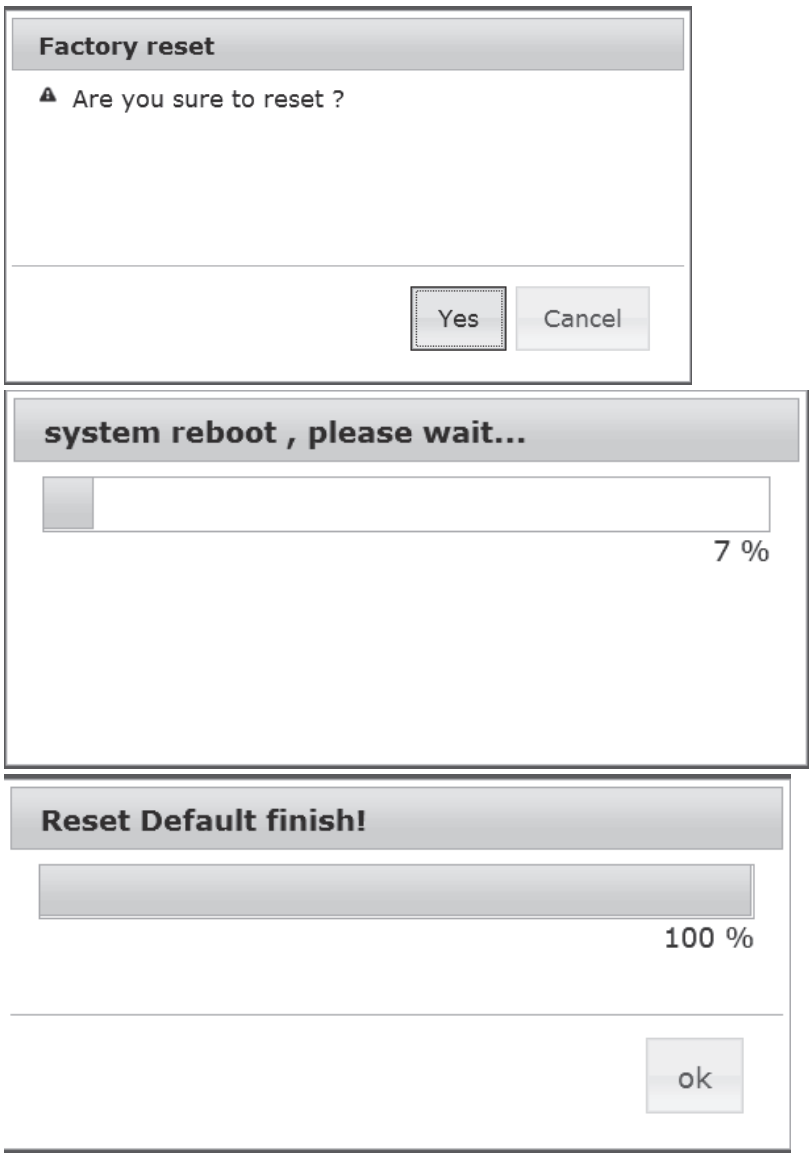
Modify Serial number, Company name, Driver name and License number

7.2.3. Format



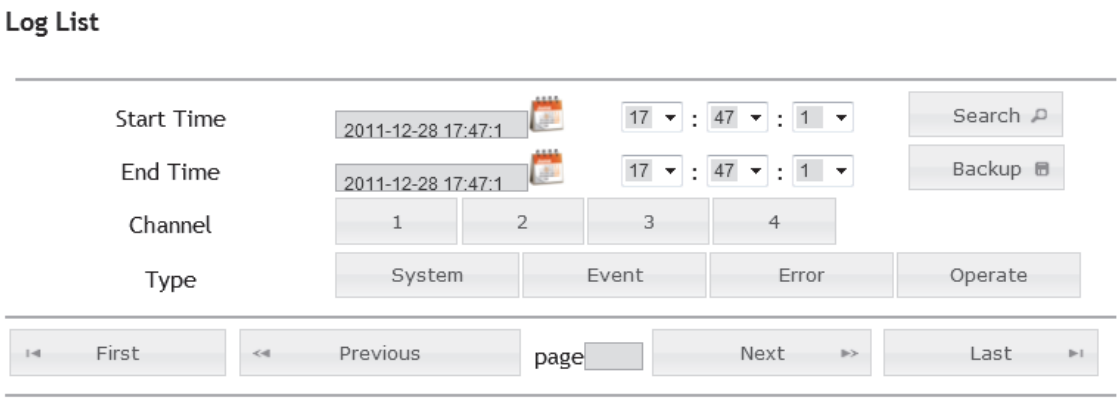
User must format the hard disk before start recording
Factory reset

Once press this option a warning message will appear asking you if you want to reset, press YES to apply



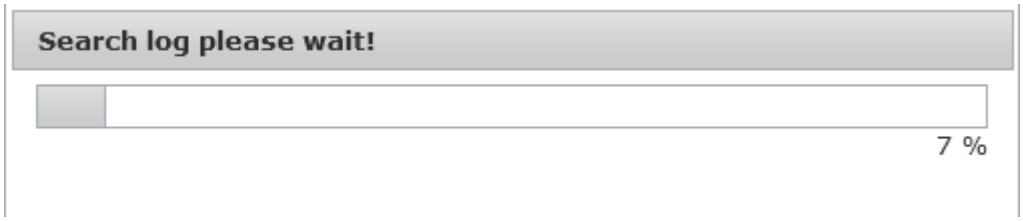
Press ok

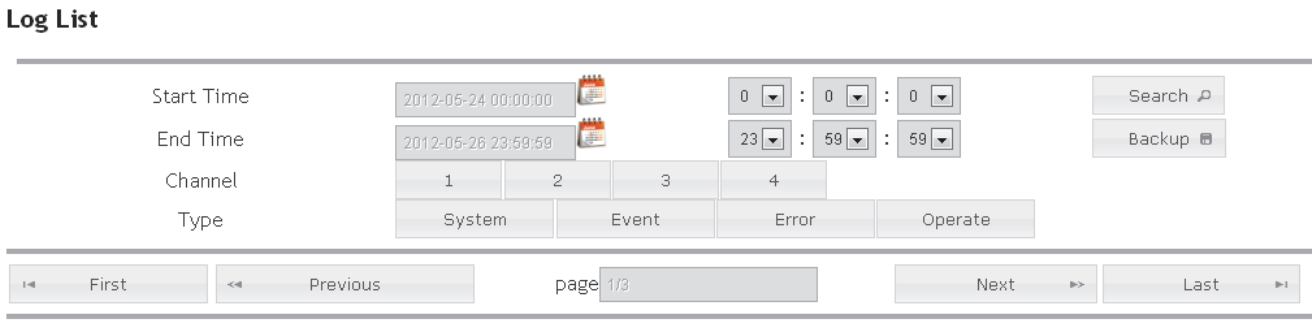
7.2.4. Log



For troubleshooting purpose, you can browse the log

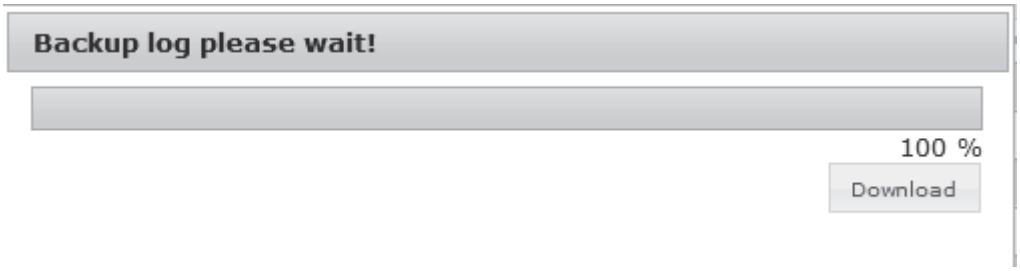
Select the starting and ending time, the channel concerned and use our 4 filters to reduce the number of event then press SEARCH. If you don't select channel, it will display system event.





Type	Information	Start Time	End Time	Description
Operate	Login	2012-05-26 15:41:41	2012-05-26 15:41:41	192.168.10.64
Operate	Logout	2012-05-26 15:41:22	2012-05-26 15:41:22	192.168.10.64
Operate	Login	2012-05-26 14:20:05	2012-05-26 14:20:05	192.168.10.64
Operate	Login	2012-05-25 21:21:56	2012-05-25 21:21:56	192.168.10.64
Operate	Login	2012-05-25 21:21:54	2012-05-25 21:21:54	192.168.10.64
Operate	Logout	2012-05-25 21:21:37	2012-05-25 21:21:37	192.168.10.64
Operate	Login	2012-05-25 20:25:36	2012-05-25 20:25:36	192.168.10.64
Operate	Login	2012-05-25 17:49:17	2012-05-25 17:49:17	192.168.10.64
Operate	Login	2012-05-25 17:03:52	2012-05-25 17:03:52	192.168.10.64
Operate	Host/Car Setup	2012-05-25 17:01:22	2012-05-25 17:01:22	192.168.10.64

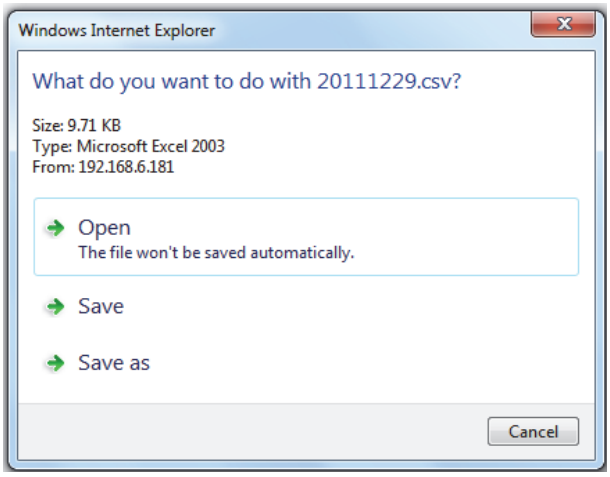
If you want to backup the log, press BACKUP,



Then press download

it will export all the events in one csv file

Choose **Save**



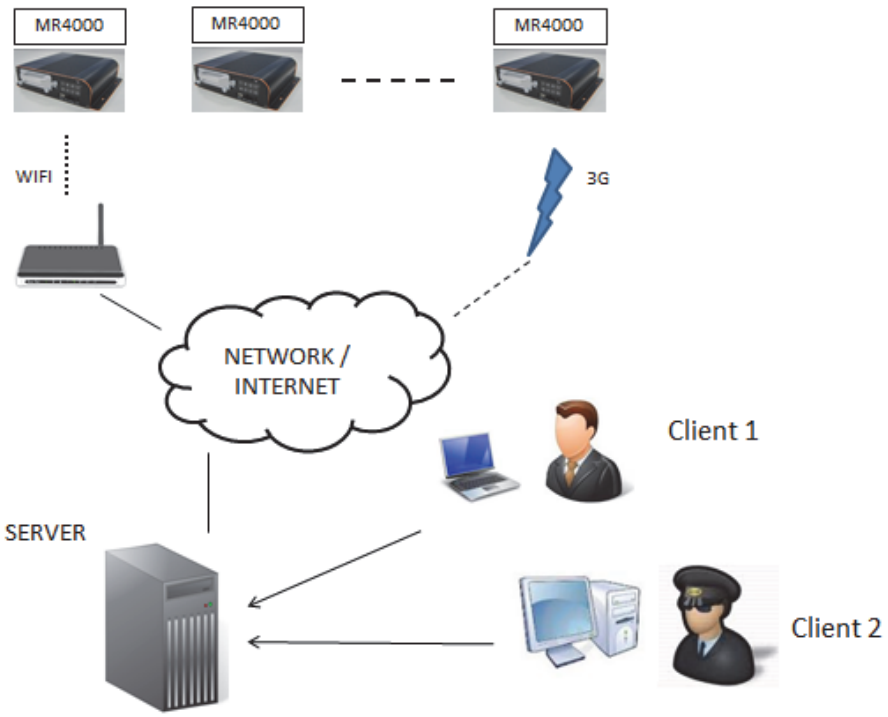
Then open the file with Microsoft Excel or any program suppoting csv file

8. Vehicle Management Software (VMS) *works only for TYPE A*

Our VMS is composed :
A client called MR VMS
A pc viewer called MR PLAYER,
A server software

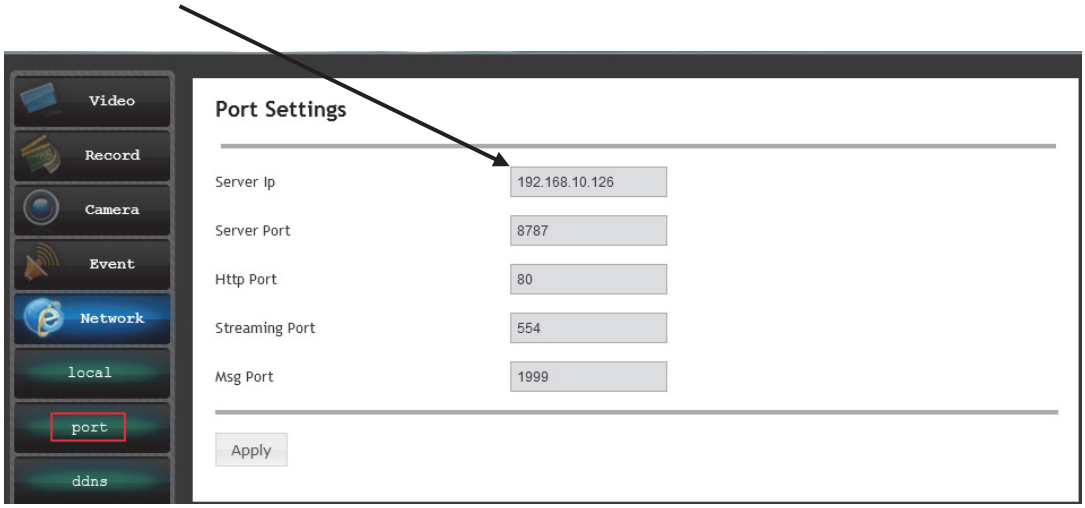
Mobile DVR send information to server via 3G network and any client can connect to server

System architecture



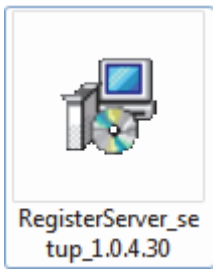
8.1. Server software installation

Server main purpose is to receive data from each mobile dvr, so user needs to tell to the dvr the **server IP**, open internet explorer and key in the dvr IP, then go to Network then Port

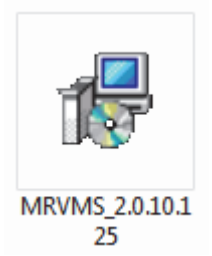


8.2. Client software installation

First install Register server software located in the cd on your computer and follow instructions

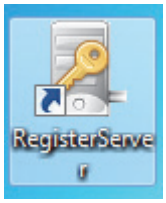


Then install the MRVMS software and follow instructions

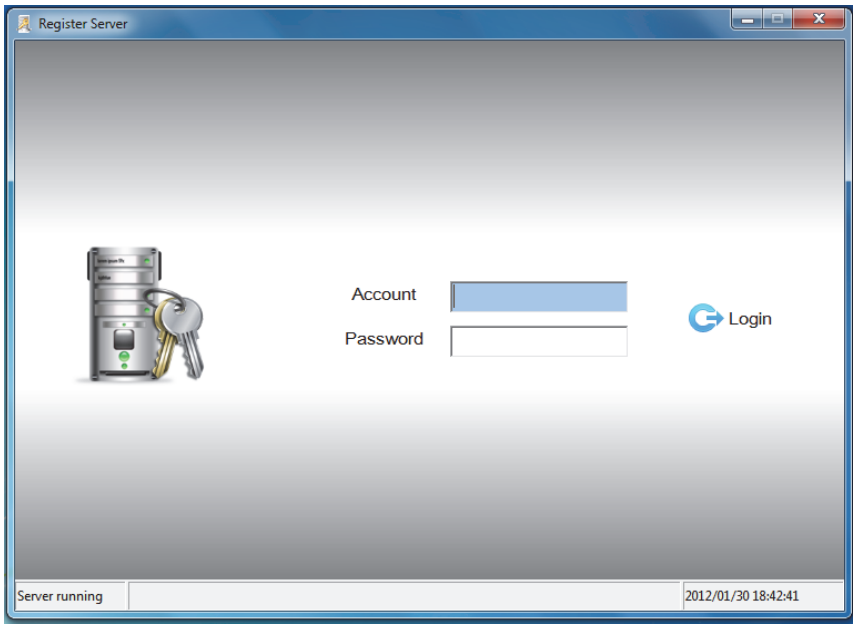


8.3. Operation

Server side: launch the application named register-server



Default account and password are admin / 1111



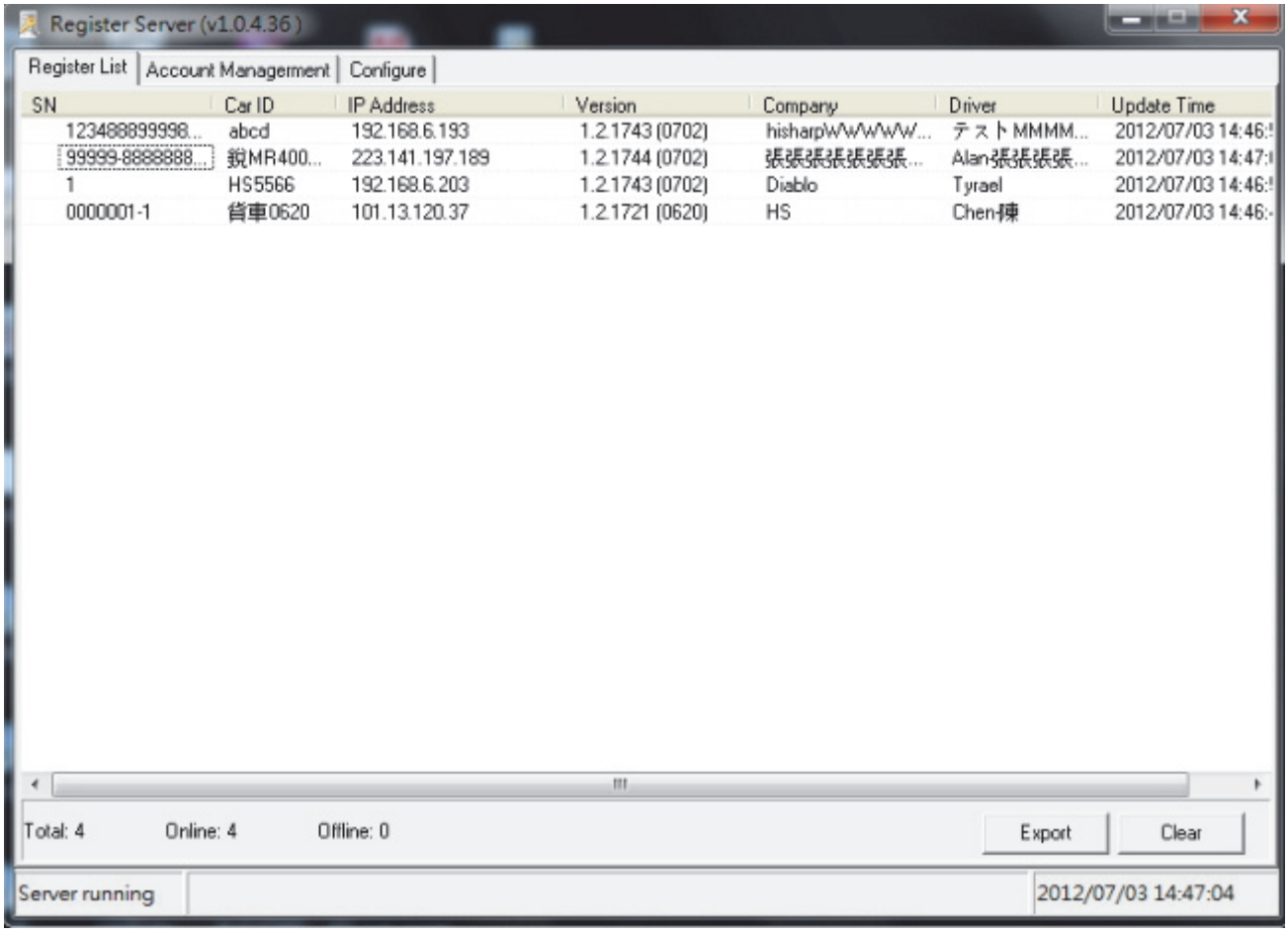
Then you will access to a page showing device connection status

At this page you can see each device serial number, Car ID, IP address, Update time and Status

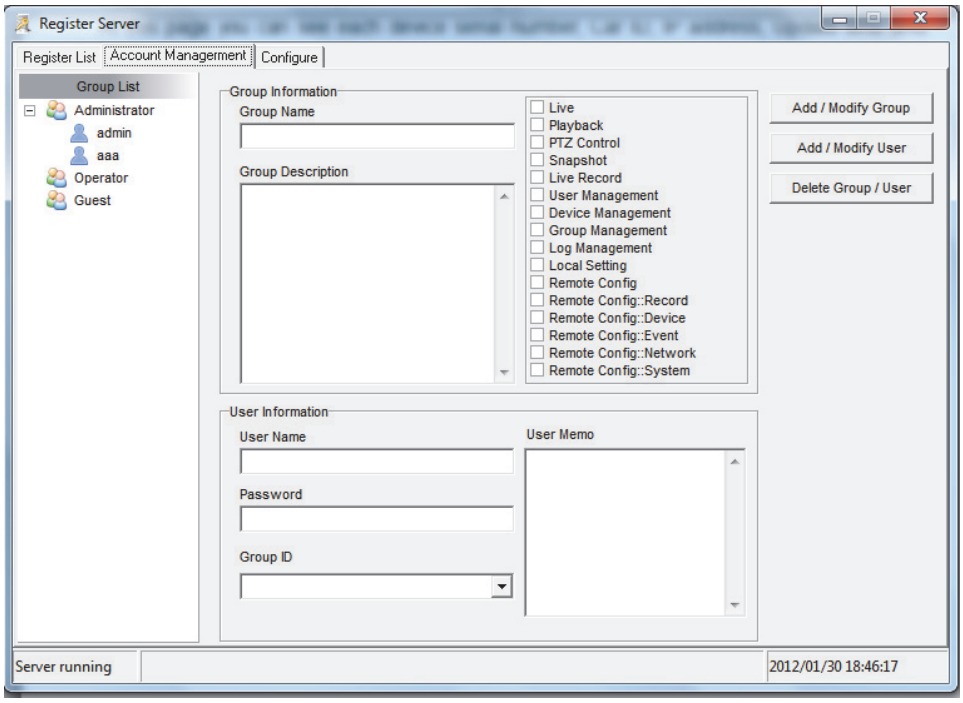
Export button enables user to repatriate all car information into a text file.

Clear button enables clear the current list, the server will then updates automatically the mobile dvr that can be linked

If the dvr is in grey color it means that it's offline

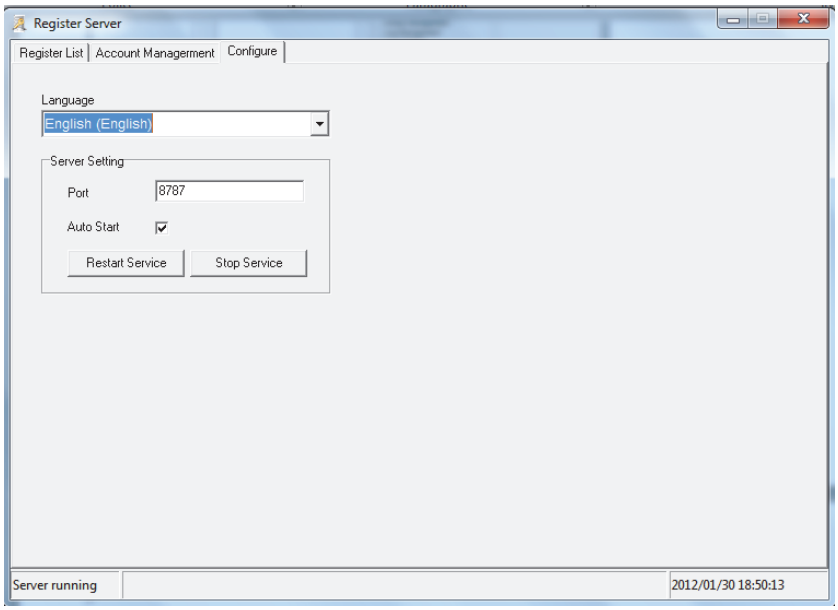


Click on the second tab will let you access to account management page

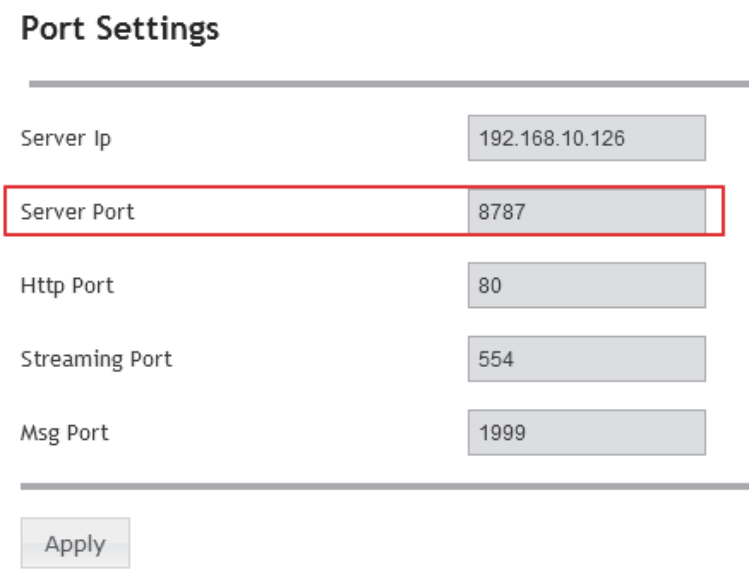


There are 3 level of account, Administrator, Operator and Guest each can be customized on the right side. This concerns loggin from cms client,

Click on the third tab to access to the language display setting you can choose between English and Chinese



Server setting: default port is 8787 , you need to double check on the mobile dvr that the port is the same otherwise the server wont be able to see the device



Start / Stop the service: the default setting is set on enabled but you can manually stop the server

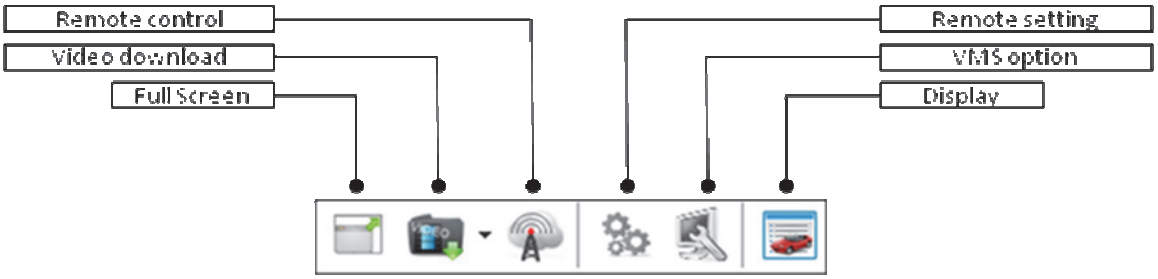
Client side: launch the application called HS VMS

Default account and password are admin / 1111

Specify the server IP, Specify the server streaming port

Choose the program language interface between English and Chinese

8.4. Tool bar description



8.4.1. Full Screen

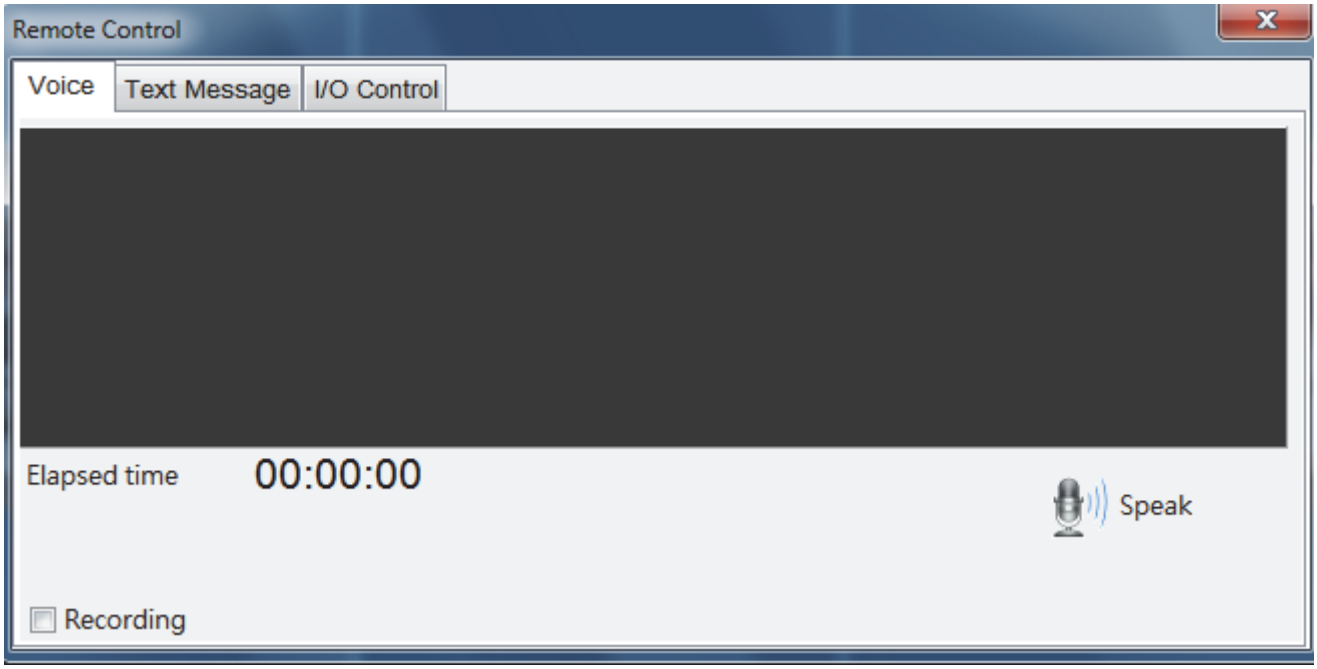
Displays the video in full screen on your monitor, to return to normal mode press ESC button on your keyboard

8.4.2. Video download

Download recorded data from the dvr remotely, you can choose between, 1, 5, 10, 30, 60 minutes or all the date (it may affect the bandwidth and slow the connection)

8.4.3. Remote control

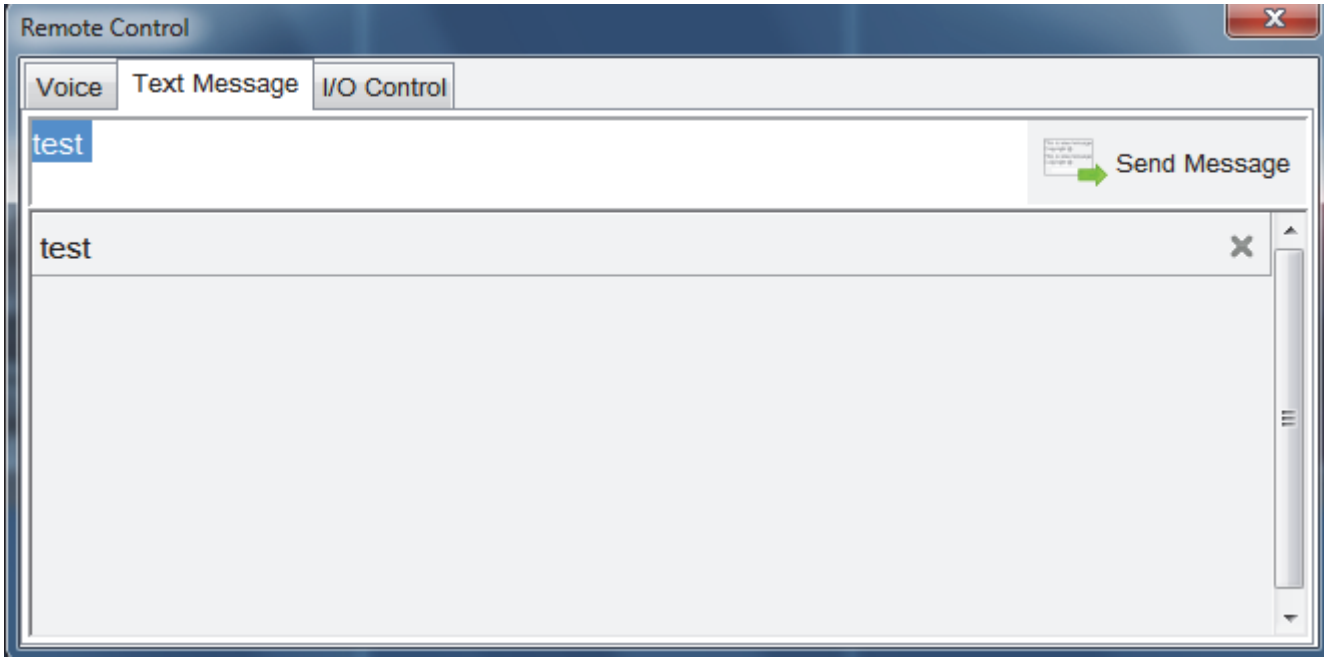
Remote functions



Two way audio

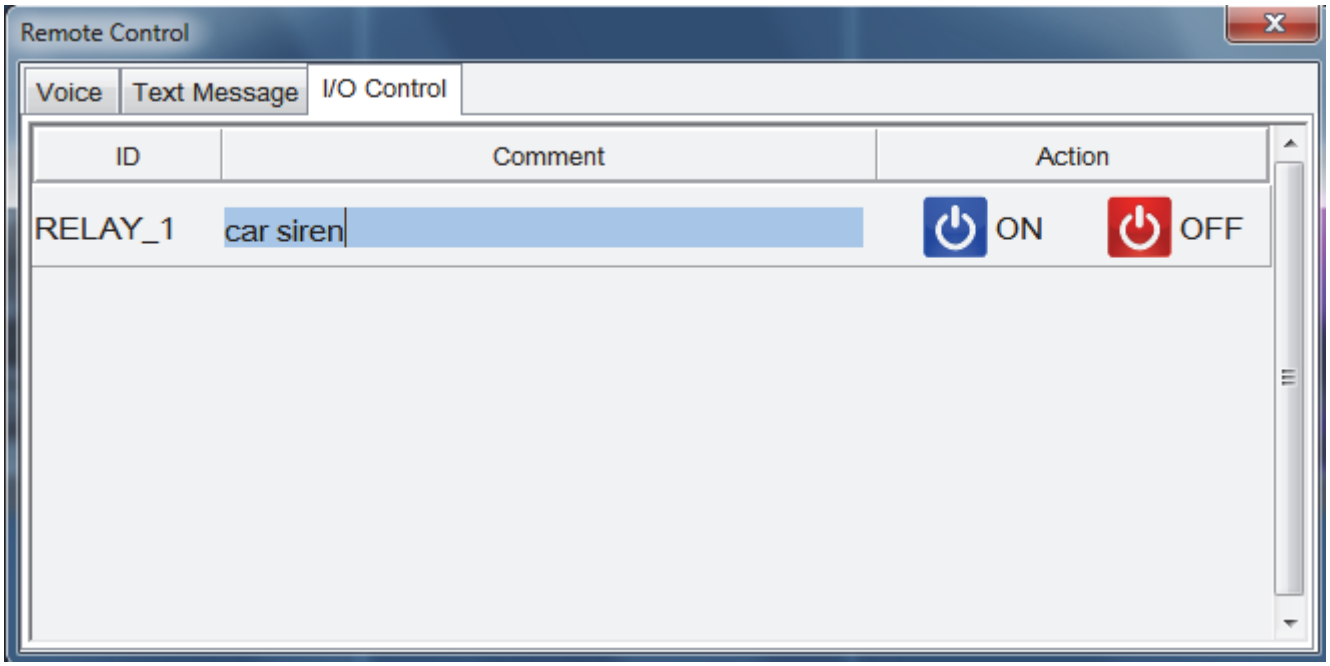
Maintain speak button to talk with your interlocutor or to the driver.

If you select recording, the conversation will be recorded in your computer



Text Message

From the vms you can send a message to the driver to inform him of any important event or information, it will be display on the main monitor of the mobile dvr



I/O control

As the mobile dvr has an alarm output, user can give description of what kind of device is connected to it in case there is alarm out triggered

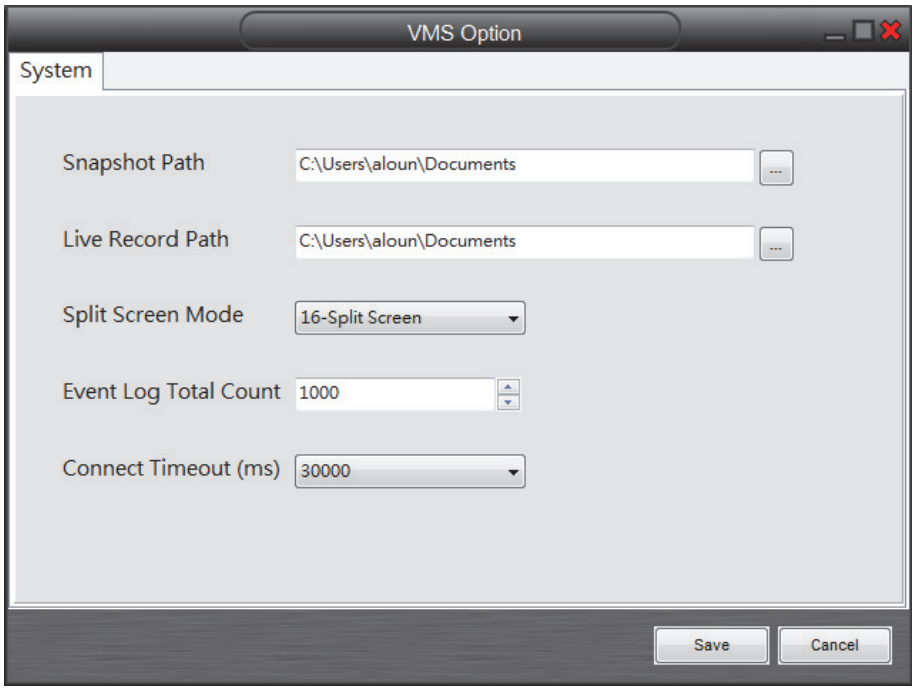
8.4.4. Remote setting

let you remotely setup mobile dvr features

all the functions are the same of the mobile dvr itself , to be able to access to the setting, the dvr must be connected.

8.4.5. VMS option

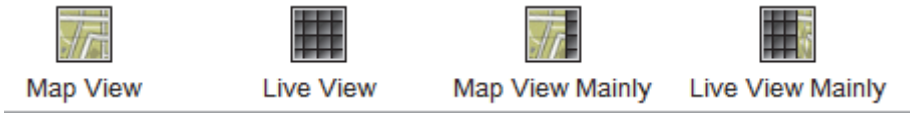
Let you setup the snapshot path folder, live record path folder, split screen mode (1/4/9/16/36), and also event log number



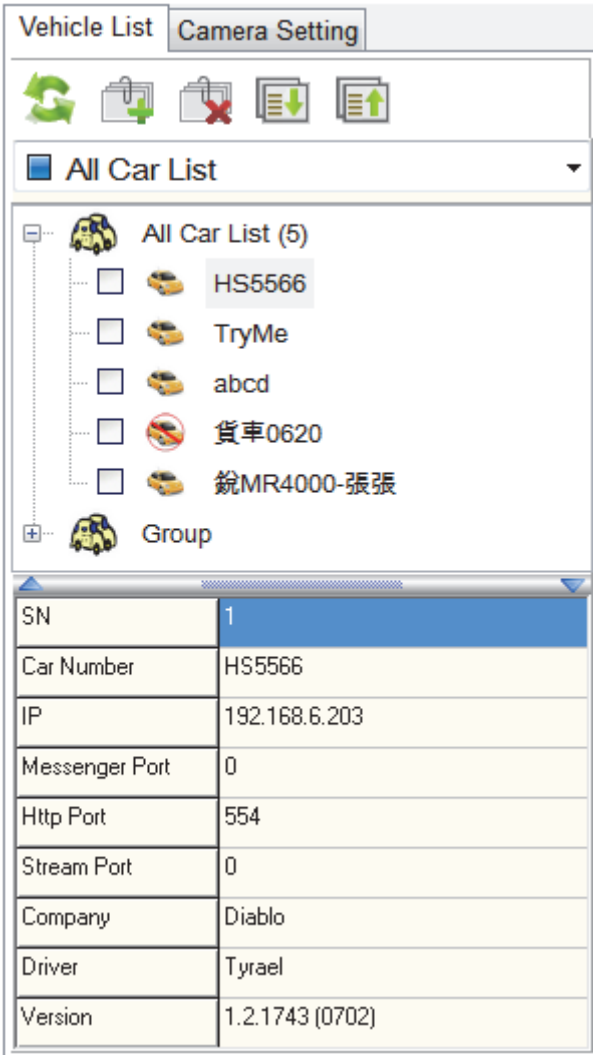
8.4.6. Vehicle display

Display or hide the vehicle list

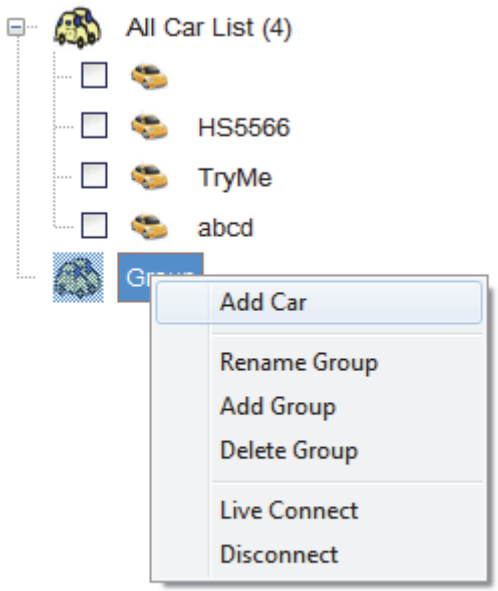
4 type of display are available select the one according to your preference



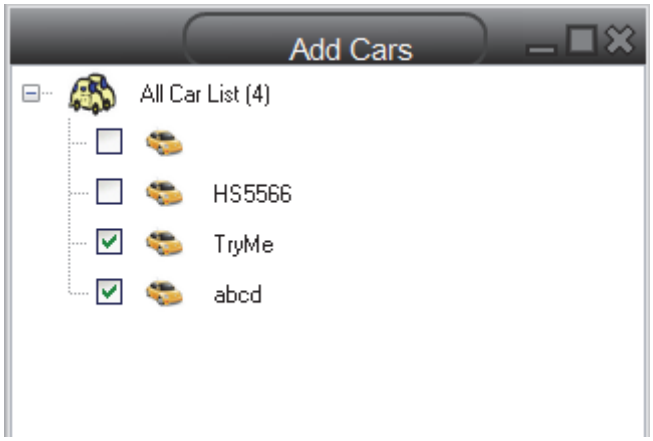
Car list: the program will show connected device with additional information, you can create or delete group for better management and pull one device to a group



Before to see live picture, you need to create a group. Click on , a car icon will appear, right click on the mouse to display the functions

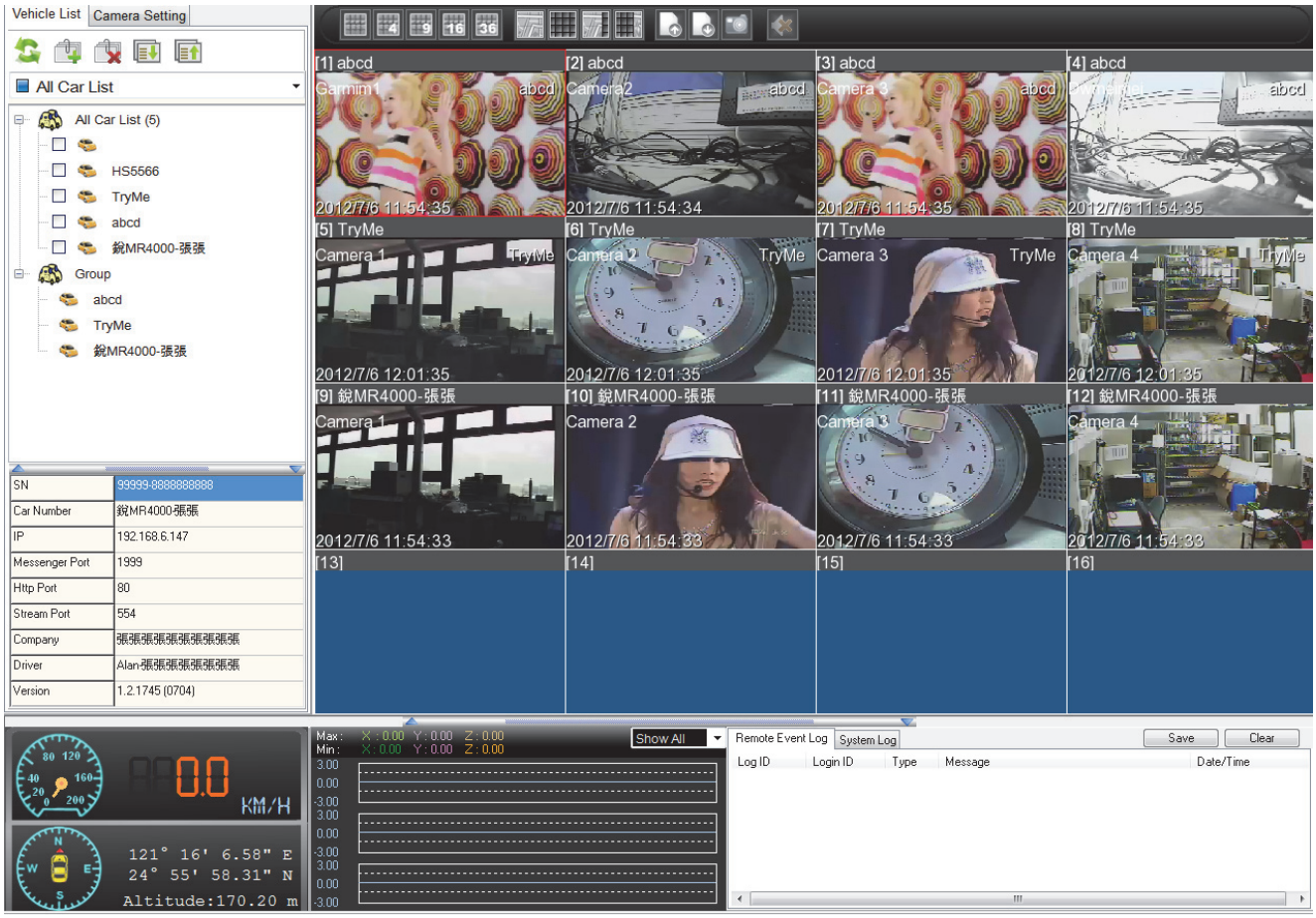


Add car: choose the car you want to add by selecting them

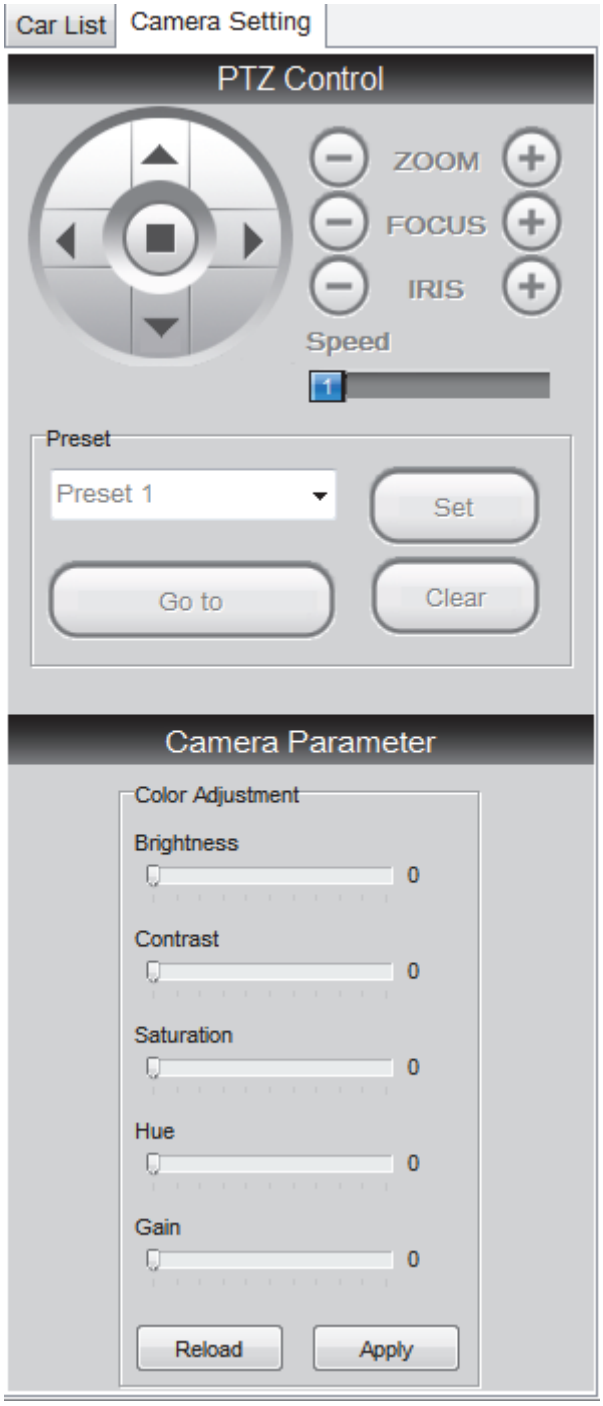


Then valid by pressing OK

Here you can see live picture with gps information

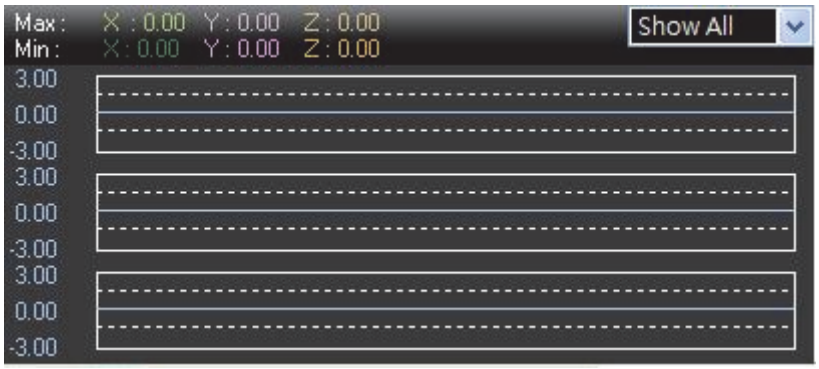


This section allows you to control the ptz camera and adjust the camera quality

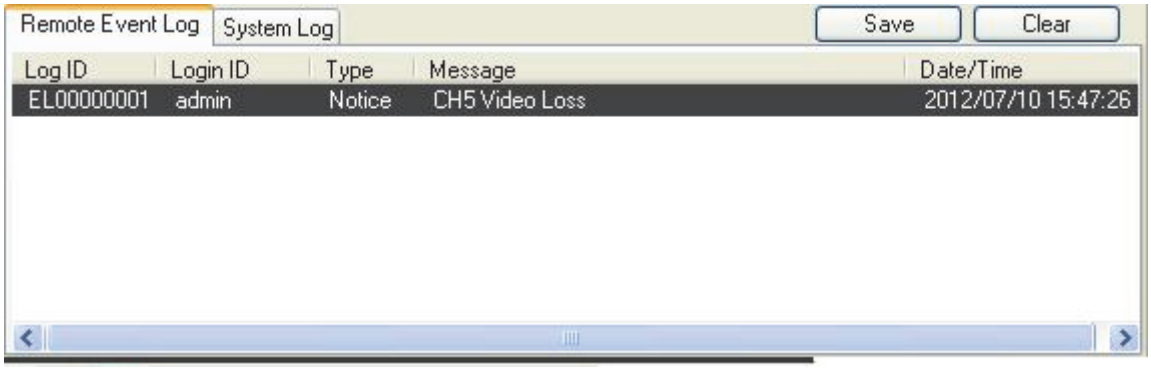


This figure show the g-sensor information

This figure shows the real time speed of the car

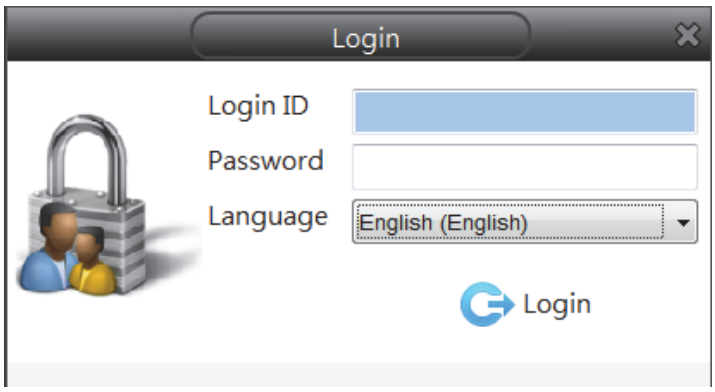


This section shows real time information such as event, vloss, relay out or motion detection



MR player application operation

Default id/password is admin/1111
At this stage you can select between English or Chinese interface



8.5. Program interface

1 is showing the position of the car according to Google map database (or soso map for China)

2 is showing Gsensor information and current speed

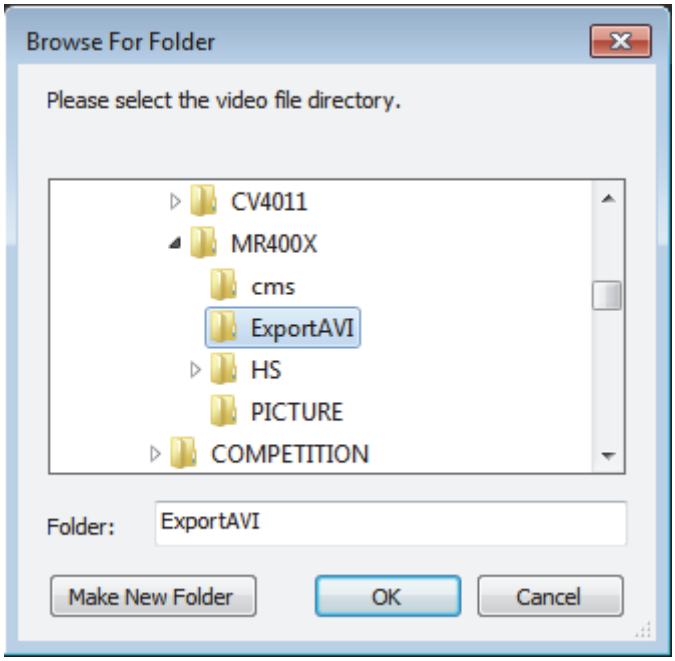
3 is displaying video by date

4 is displaying video and let user to control playback

There are two way to open a file:

8.5.1. Open AVI

To open a file press the first icon and find the folder you store the avi file



You will be able see the recorded files displayed by date

To play a file just double click on the date then a specific time

8.5.2. Open HDD

After you select the hard disk you will see this display

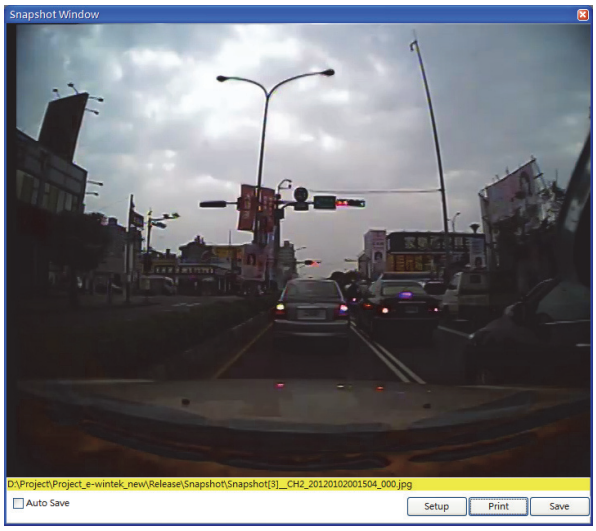
you can export the video into avi file by pressing the third icon

8.5.3. Control bar description

Icon	Description
	Open a avi file in a folder
	Open hard disk containing the video
	Convert a period from the hard disk into AVI format
	Stop the playback
	Playback
	Pause
	Fast Forward
	Playback previous file
	Playback next file
	Take snapshot of current video
	System setting

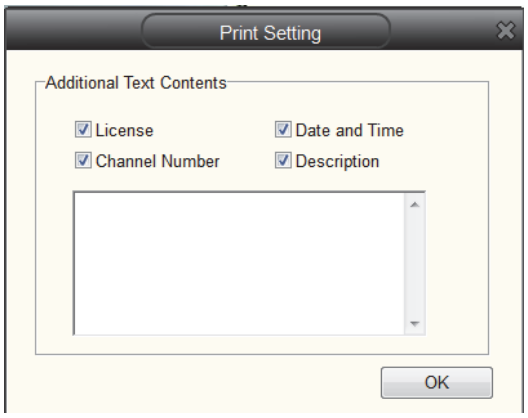
8.5.4. Snapshot

If you press the snapshot icon , a window will pop out



You can save manually or auto save the picture

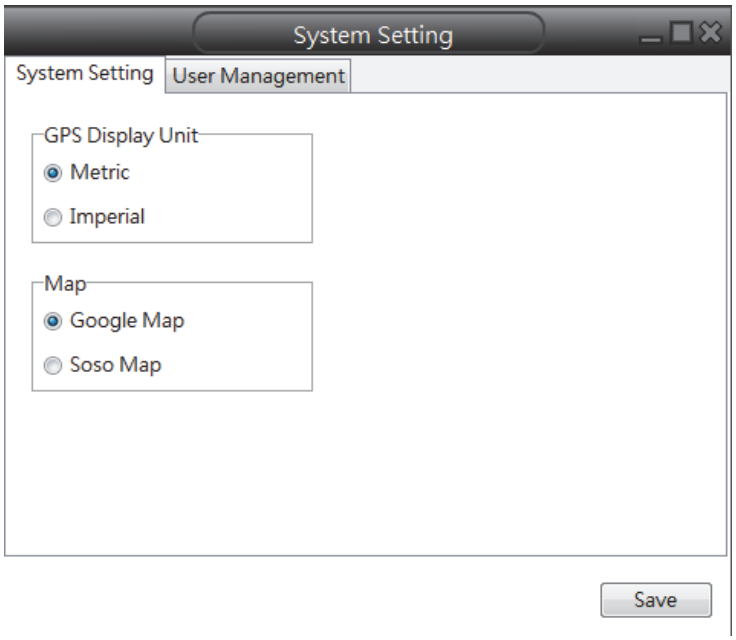
You can adjust print setting by pressing SETUP button, another window will come out



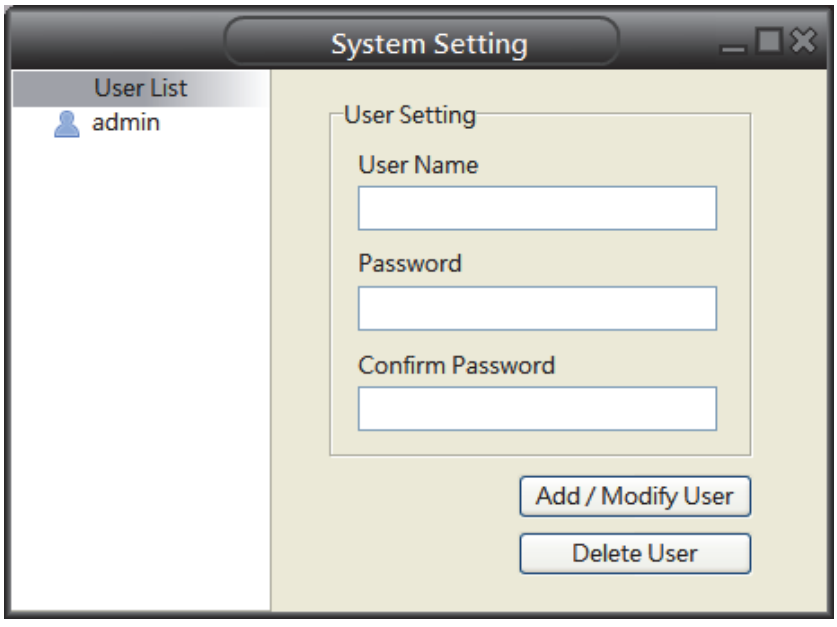
You can add in your picture print license number, plate number, date and time, and also description (by adding text)

If you press PRINT button, the computer will send the picture to your connected printer.

8.5.5. Setting



Here user can select GPS display unit and also which map use
If you are in China, please select soso map



In this section you can manage your different account, by changing administrator password or add new account. There are no limits of number of account
You can also delete user.